

Establishment Name	Boehringer Ingelheim Animal Health USA Inc.
USDA Vet Biologics Establishment Number	124
Product Code	2668.06
True Name	Leptospira Canicola-Grippotyphosa-Icterohaemorrhagiae- Pomona Bacterial Extract
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	
Date of Compilation Summary	September 01, 2020

## Disclaimer: Do not use the following studies to compare one product to another. Slight differences in study design and execution can render the comparisons meaningless.

Study Type	Efficacy
Pertaining to	Leptospira canicola
Study Purpose	To demonstrate effectiveness against <i>Leptospira canicola</i> in 6 week old dogs.
Product Administration	Two doses were administered subcutaneously (SC) 3 weeks apart.
Study Animals	Twenty-three (23) 6-week-old puppies serologically negative Leptospira were randomized into one group of 11 SC vaccinates and one group of 12 controls.
Challenge Description	Twenty-one (21) days after second vaccination all animals were challenged with <i>Leptospira canicola</i> organisms.
Interval observed after challenge	Dogs were observed daily for 21 days after challenge for clinical signs associated with <i>L. canicola</i> . Blood samples were collected through 14 days after challenge.
Results	Efficacy was determined by comparing vaccinates versus controls in clinical signs, thrombocytopenia, and leukopenia.
	A dog was considered to have thrombocytopenia if the platelet count dropped below 200 k/ $\mu$ L and the count was less than 50% of the baseline value.
	A dog was considered to have leukopenia if the platelet count dropped below 6 k/ $\mu$ L and the count was less than 50% of the baseline value.
	See the next page for data.
USDA Approval Date	April 3, 1998

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     G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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td=""><td>PC3DPC4DPC5DPC5DPC3DPC3DPC3DPCN3N1<math>A,D,G,J</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math>N3N1<math>G,G,M</math><math>G,G,G,M</math><math>A,G,G</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math>N1D,G,M1GD<math>A,D,J</math><math>A,G,G</math><math>A,D,G</math><math>A,D,G</math><math>A,D,G</math>N1D,G,M1GD<math>A,D,G</math><math>A,G,G</math><math>A,D,G</math><math>A,D,G</math>N1D,G,M1GD,G,K,L,M,M<math>A,D,G,K,G</math><math>A,G,G</math><math>A,D,G</math>N2A,G,G,LD,G,K,L,M,M<math>A,D,G,K,L,M,M</math><math>A,D,G,K,L,M,M</math>N2G,KB,D,K,LD,G,K,L,M,M<math>A,D,G,K,L,M,M</math><math>A,D,G,K,L,M,M</math>N2G,KB,D,K,LD,G,K,L,M,M<math>A,D,G,K,L,M,M</math><math>A,D,G,K,L,M,M</math>N2G,KB,D,K,LD,G,K,L,M,M<math>A,D,G,K,L,M,M</math><math>A,D,G,K,L,M,M</math>N2G,KB,D,K,LD,G,K,L,M,M<math>A,D,G,K,L,M,M</math><math>A,D,G,K,L,M,M</math>N2A,G,M1A,G,G,M2A,D,G,K,L,M,M<math>A,D,G,K,L,M,M</math>N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M<math>A,D,G,K,L,M,M</math>N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M<math>A,D,G,K,L,M,M</math>N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M<math>A,D,G,K,L,M,M</math>N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M<math>A,G,G,K,L,M,M</math>N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M<math>A,D,G,K,L,M,M</math>N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,MN2<t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Cerner</td><td>iral cione oh</td><td>Rlank . no rlin</td><td></td><td>a</td><td>I - Bloody Urine</td><td></td><td>C Coupra</td><td>initi</td><td>š</td></t<></td></t<> | PC3DPC4DPC5DPC5DPC3DPC3DPC3DPCN3N1 $A,D,G,J$ $A,D,G$ $A,D,G$ $A,D,G$ $A,D,G$ $A,D,G$ $A,D,G$ N3N1 $G,G,M$ $G,G,G,M$ $A,G,G$ $A,D,G$ $A,D,G$ $A,D,G$ $A,D,G$ N1D,G,M1GD $A,D,J$ $A,G,G$ $A,D,G$ $A,D,G$ $A,D,G$ N1D,G,M1GD $A,D,G$ $A,G,G$ $A,D,G$ $A,D,G$ N1D,G,M1GD,G,K,L,M,M $A,D,G,K,G$ $A,G,G$ $A,D,G$ N2A,G,G,LD,G,K,L,M,M $A,D,G,K,L,M,M$ $A,D,G,K,L,M,M$ N2G,KB,D,K,LD,G,K,L,M,M $A,D,G,K,L,M,M$ $A,D,G,K,L,M,M$ N2G,KB,D,K,LD,G,K,L,M,M $A,D,G,K,L,M,M$ $A,D,G,K,L,M,M$ N2G,KB,D,K,LD,G,K,L,M,M $A,D,G,K,L,M,M$ $A,D,G,K,L,M,M$ N2G,KB,D,K,LD,G,K,L,M,M $A,D,G,K,L,M,M$ $A,D,G,K,L,M,M$ N2A,G,M1A,G,G,M2A,D,G,K,L,M,M $A,D,G,K,L,M,M$ N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M $A,D,G,K,L,M,M$ N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M $A,D,G,K,L,M,M$ N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M $A,D,G,K,L,M,M$ N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M $A,G,G,K,L,M,M$ N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,M $A,D,G,K,L,M,M$ N2A,G,M2D,G,K,L,M,MA,D,G,K,L,M,MN2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Cerner</td><td>iral cione oh</td><td>Rlank . no rlin</td><td></td><td>a</td><td>I - Bloody Urine</td><td></td><td>C Coupra</td><td>initi</td><td>š</td></t<>                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                       |           |            | Cerner                         | iral cione oh                                                            | Rlank . no rlin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | a                                                                                                                                                     | I - 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A,D,G,K,L         A,D,G,K,L         A,D,G,K,L         A,R         G,K         G,K           A,N1         A,D,G,L,N1         A,D,G,K,L         A,D,G,K,L         A,R         G,K         G,K           A,N1         A,G,K         A,D,G,K,L         A,D,G,K,L         A,D,G,K,L         A,R         G,K         G,K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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 G         G         G         G         G         G         G         G <td>N2         G,K         B,D,K,L         D,G,K,L,N4         P           N1         G         G,L         D,K,L         A,D,G,K,L,M,M4         P         P         P           6,N2         G,L         D,K,L         A,D,G,K,L         A,D,G,K,L</td> <td>N2         G,K         G,K         Å,D,G,K         G,G         G,K         M         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G  
      G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G</td> <td>D/N2         J/K         A,B,D,G,L,L,M,         A,D,E,J,K,L,M,M         A,D,E,J,K,L,M,M         A,D,E,J,K,L,M,M         A,D,G,K,L,M,M         A,D,G,K,L,M         A,D,G,K,L,M</td> <td>ZDPC         3DPC         4DPC         5DPC         5DPC         3DPC         <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>.0-104.9°F)</td><td>N2 - Fever (104</td><td></td><td>charge Serous</td><td>H - Nasal Disc</td><td></td><td></td><td>-</td><td></td></th<></td> | N2         G,K         B,D,K,L         D,G,K,L,N4         P           N1         G         G,L         D,K,L         A,D,G,K,L,M,M4         P         P         P           6,N2         G,L         D,K,L         A,D,G,K,L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| H - Nasal Discharge Serous     N2 - Fever (104.0-104.9 <sup>+</sup> F)       I - Nasal Discharge Mucoid     N3 - Fever (105.0-105.9 <sup>+</sup> F)       Irgy     J - Diarrhea Mild (loose stool)       Id/Moderate     K - Diarrhea Severe (bloody stool)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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 C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ZDPC         3DPC         4DPC         5DPC         5DPC         3DPC         3DPC <t< td=""><td>ay post-challenge</td><td>DPC = D</td><td></td><td></td><td></td><td></td><td></td><td>.0-103.9°F)</td><td>N1 - Fever (103</td><td></td><td>charge Mucoid</td><td>G - Ocular Dis</td><td></td><td></td><td>ance</td><td></td></t<>                                   | ay post-challenge                                                                                                                     | DPC = D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                       |           |            |                                | .0-103.9°F)                                                              | N1 - Fever (103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | charge Mucoid                                                                                                                                         | G - 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| G - Ocular Discharge Mucoid     N1 - Fever (103.0-103.9 <sup>+</sup> F)       H - Nasal Discharge Serous     N2 - Fever (104.0-104.9 <sup>+</sup> F)       I - Nasal Discharge Mucoid     N3 - Fever (105.0-105.9 <sup>+</sup> F)       rgy     J - Diarrhea Mild (loose stool)       rdy     - O95.6 <sup>+</sup> F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                        | N1         G         G,L         D/K,L         A,D,G,K,L,M,N4           6,N2         A,G,N1         A,G         A,B,J         A,D,G,K,L         A,D,G,K,L         A,D,G,K,L         A,D,G,K,L         A,C         G,L         G,L         A,G           A,N1         A,G,N2         G,G         A,D,G,K,L         A,D,G,K,L         A,D,G,K,L         A,K         G         G         G,L         A,G           A,N1         A,G,N2         G,G         A,D,G,K,L         A,D,G,K,L         A,D,G,K,L         A,R         G         G         G,L         A,G                                                                                                                                                                                                                                                                                                                                                                                                  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     A,D         A,D           N1         A         A,A         A,A         A,A         A,D,G,K,L,M,M         A,G,K         A,D,G         A,D,G         A,D,G         A,D,G         A,D,G         A,D         A,D           N1         A         A,G,L         A,D,G,K,L,M,M         A,D,G,K,L,M,M         A,D,G,K         A,D                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                       |                                                                                                                                                                                                                             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| G - Ocular Discharge Mucoid     N1 - Fever (103.0-103.9 <sup>+</sup> F)       H - Nasal Discharge Serous     N2 - Fever (104.0-104.9 <sup>+</sup> F)       I - Nasal Discharge Mucoid     N3 - Fever (105.0-105.9 <sup>+</sup> F)       rgy     J - Diarthea Mild (loose stool)       rd/Moderate     K - Diarthea Severe (bloody stool)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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N3 - Fever (105.0-105.9 <sup>*</sup> F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                  | G.N2 A,G.N1 A,G A,B,J A,D,G,K,L A,D,G,K,L A,D,G,K,L A,K G G G GL A,G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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        G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 11         A,G,N2         G         A,D,G,K,L         A,D,G,K,L         A,K         G,K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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      G,K         G,K         C,K         L         L         Nasal Discharge Serous         N2 - Fever (104.0-104.9 <sup>4</sup> F)         N         N         L         Nasal Discharge Mucoid         N3 - Fever (105.0-105.9 <sup>4</sup> F)         N         N         L         N         N         L         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N                                                                                                                                                      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                                                  | N2         G,K         B,D,K,L         G,K         A,D,G,K,L,M,H         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         D         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G     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                                                                                                                                                                                                                                                                                                                                                   | ZDPC         3DPC         4DPC         5DPC         5DPC         3DPC         3DPC <th< td=""><td></td><td>C,L</td><td></td><td>S</td><td>g</td><td>A,K</td><td>A,D,G,K,L</td><td>A,D,G,K,L</td><td></td><td>A,D,G,K,L</td><td>A,B,J</td><td>A,G</td><td>A,G,N1</td><td>G,N2</td><td>9</td><td></td></th<>                                                            |                                                                                                                                       | C,L                                                                                                                                                                 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| Image: Constraint of the state of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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       P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P <t< td=""><td>GN2         A         A,G,L         A,D,G,K,L,M,V4         A,D,E2,M,V4         A,D,D,E2,M,V4&lt;</td><td>GN2 A A,G,L A,D,G,K,L,M,N4 A,D,E2,M,N4<br/>D,N2 J,K A,B,D,G,L D,G,K,L,N4 A,D,E1,K,L,M,N4</td><td>GN2 A A,G,L A,D,G,K,L,M,N4 A,D,E2,M,N4 GN2</td><td></td><td>2DPC         3DPC         4DPC         5DPC         5DPC         3DPC         <th< td=""><td>A,G</td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td>A,D,G</td><td>A,K</td><td>A,N1</td><td>A</td><td>A</td><td>N1</td><td></td><td></td></th<></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GN2         A         A,G,L         A,D,G,K,L,M,V4         A,D,E2,M,V4         A,D,D,E2,M,V4<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                      | A,D,G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
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| 1       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A                                                      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      A/D,G,K,L,M,M         A/D,G,K,L,M         A/D,G,K</td> <td>N1         A         A,N1         A,K         A,D,G         A,D,G<td>N1         A         A         A,N1         A,K         A,D,G         A,D,G         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A</td><td>N1         A         A         A,N1         A,K         A,D,G         A         A,D         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         &lt;</td><td>N1         A         A         A,N1         A,K         A,D,G         A         A           GN2         A         A,G,L         A,D,G,K,L,M,N4         A,D,K,L,M,N4         A,D,G,K,L,M,N4</td><td>A A A,N1 A,K A,D,G A</td><td>2DPC         3DPC         4DPC         5DPC         5DPC         9DPC         <th< td=""><td>8</td><td></td><td></td><td>D,G</td><td>9</td><td></td><td>A,D</td><td>A,D,K</td><td>A,G,K</td><td>A,D,J</td><td>0</td><td>G</td><td>D,G,N1</td><td></td><td></td><td></td></th<></td></td> | I         A         A,N1         A,K         A,D,G,K,L,M,M         A,D,G,K,L         B,D,K                                                                                                                 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     A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A</td> <td>N1         A         A         A,N1         A,K         A,D,G         A         A,D         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         &lt;</td> <td>N1         A         A         A,N1         A,K         A,D,G         A         A           GN2         A         A,G,L         A,D,G,K,L,M,N4         A,D,K,L,M,N4         A,D,G,K,L,M,N4</td> <td>A A A,N1 A,K A,D,G A</td> <td>2DPC         3DPC         4DPC         5DPC         5DPC         9DPC         <th< td=""><td>8</td><td></td><td></td><td>D,G</td><td>9</td><td></td><td>A,D</td><td>A,D,K</td><td>A,G,K</td><td>A,D,J</td><td>0</td><td>G</td><td>D,G,N1</td><td></td><td></td><td></td></th<></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N1         A         A         A,N1         A,K         A,D,G         A,D,G         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A      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  A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N1         A         A         A,N1         A,K         A,D,G         A         A           GN2         A         A,G,L         A,D,G,K,L,M,N4         A,D,K,L,M,N4         A,D,G,K,L,M,N4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A A A,N1 A,K A,D,G A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2DPC         3DPC         4DPC         5DPC         5DPC         9DPC         9DPC <th< td=""><td>8</td><td></td><td></td><td>D,G</td><td>9</td><td></td><td>A,D</td><td>A,D,K</td><td>A,G,K</td><td>A,D,J</td><td>0</td><td>G</td><td>D,G,N1</td><td></td><td></td><td></td></th<>                                                                                   | 8                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | D,G                                   | 9         |            | A,D                            | A,D,K                                                                    | A,G,K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A,D,J     | 0                                                                                                                                                     | G                                                                                                                                                                       | D,G,N1                                                                                                                                                                                               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| MID,G,MIGDA,DA,D,GA,D,G,KA,D,G,KA,D,GCCCD,GC1AA,G,LA,D,G,K,L,M/HA,D,E,Z,M,H4A,D,E,Z,M,H4A,D,E,Z,M,H4A,D,E,Z,M,H4A,D,E,Z,M,H4A,D,E,Z,M,H4A,D,E,Z,M,H4A,D,E,Z,K,L,M,H4A,D,E,Z,K,L,M,H4A,D,E,Z,K,L,M,H4A,D,E,Z,K,L,M,H4A,D,E,Z,K,L,M,H4A,D,E,Z,K,L,M,H4A,D,E,Z,K,L,M,H4A,D,G,K,L,M,H4A,D,G,K,L,M,H4A,D,G,K,L,M,H4A,D,G,K,L,M,H4A,D,G,K,LA,D,G,K,LA,D,C,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,LA,D,G,K,L 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td=""><td>DGMI         DGMI         G         D         ADJ         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th="">         D         <thd< th=""> <thd< thd=""></thd<></thd<></thd<></td><td>D,G,N1         D,G,N1         G         D         A,D,L         A,G,L         A,D,C         A,D,C</td><td>D,G,N1         D,G,N1         G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         G         D,G         G         D,G         D,G<td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D&lt;</td><td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         D         A,G         D         A,D,K         A,D,K         A,D         G         D,G         D         A,G         D         A,G         D         A,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>ZDPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A,D,K         C,D,G,L,M4         A,D,K         A,D,K,M4</td><td></td><td>U</td><td></td><td></td><td>A,D,N1</td><td></td><td>D</td><td>A</td><td>A,G</td><td>A,K</td><td></td><td>G</td><td>8</td><td>N2</td><td></td><td></td></td></t<></td></td> | MIDG,MIGDADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADAD </td <td>MIDG,MIGDADJA,G,KA,D,G,KA,D,G,KA,D,G,KA,D,G,KA,D,G,KA,D,G,KA,G,G,KA,D,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,</td> <td>DGMIDGMIGDADJADJAGKADKADKADKADADAADAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA<t< td=""><td>DGMI         DGMI         G         D         ADJ         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th="">         D         <thd< th=""> <thd< thd=""></thd<></thd<></thd<></td><td>D,G,N1         D,G,N1         G         D         A,D,L         A,G,L         A,D,C         A,D,C</td><td>D,G,N1         D,G,N1         G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         G         D,G         G         D,G         D,G<td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D        
D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D&lt;</td><td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         D         A,G         D         A,D,K         A,D,K         A,D         G         D,G         D         A,G         D         A,G         D         A,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>ZDPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A,D,K         C,D,G,L,M4         A,D,K         A,D,K,M4</td><td></td><td>U</td><td></td><td></td><td>A,D,N1</td><td></td><td>D</td><td>A</td><td>A,G</td><td>A,K</td><td></td><td>G</td><td>8</td><td>N2</td><td></td><td></td></td></t<></td>      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MIDG,MIGDADJA,G,KA,D,G,KA,D,G,KA,D,G,KA,D,G,KA,D,G,KA,D,G,KA,G,G,KA,D,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,KA,G,G,                                                                                                                            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 D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th="">         D         <thd< th=""> <thd< thd=""></thd<></thd<></thd<></td><td>D,G,N1         D,G,N1         G         D         A,D,L         A,G,L         A,D,C         A,D,C</td><td>D,G,N1         D,G,N1         G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         G         D,G         G         D,G         D,G<td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D&lt;</td><td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         D         A,G         D         A,D,K         A,D,K         A,D         G         D,G         D         A,G         D         A,G         D         A,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>ZDPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A,D,K         C,D,G,L,M4         A,D,K         A,D,K,M4</td><td></td><td>U</td><td></td><td></td><td>A,D,N1</td><td></td><td>D</td><td>A</td><td>A,G</td><td>A,K</td><td></td><td>G</td><td>8</td><td>N2</td><td></td><td></td></td></t<>                                                                                                                                                                                  | DGMI         DGMI         G         D         ADJ         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th="">         D         <thd< th=""> <thd< 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     D,G,N1         G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         G         D,G         G         D,G         D,G <td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D&lt;</td> <td>D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         D         A,G         D         A,D,K         A,D,K         A,D         G         D,G         D         A,G         D         A,G         D         A,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td> <td>ZDPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A,D,K         C,D,G,L,M4         A,D,K         A,D,K,M4</td> <td></td> <td>U</td> <td></td> <td></td> <td>A,D,N1</td> <td></td> <td>D</td> <td>A</td> <td>A,G</td> <td>A,K</td> <td></td> <td>G</td> <td>8</td> <td>N2</td> <td></td> <td></td> | D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         D         D         D         D         D         D         D         D         D         D         D         D 
       D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D,G,N1         D,G,N1         G         D         A,D,J         A,G,K         A,D,K         A,D         G         D,G         D         A,D         A,G,K         A,D,K         A,D         G         D,G         D         A,G         D         A,D,K         A,D,K         A,D         G         D,G         D         A,G         D         A,G         D         A,G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ZDPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A,D,K         C,D,G,L,M4         A,D,K         A,D,K,M4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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   G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N2         B         G         A,K         A,G         A,G         A,D         D         A,D,NI         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         C         D         C         D         C         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th=""> <thd< th=""> <thd< th=""> <!--</td--><td>N2         B         G         A,K         A,G         A,G         A,G         A,D         D,G,NI         D         G         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></td><td>N2         B         G         A,K         A,G         A,G         A,G         A,D         D,G,N1         D         G         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></td><td>N2         B         G         A,K         A,G         A,G         A         D         A,D,NI         D         G         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         G         D         D         G         D         A,D         G         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th=""> <thd< th=""> <thd< th=""> <!--</td--><td>N2         B         G         A/K         A/G         A         D         A/D/I         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th="">         D         D         D</thd<></td><td>2DPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A<td></td><td>Р</td><td></td><td></td><td></td><td></td><td></td><td></td><td>C,D,G,L,N4</td><td>A,D,K</td><td>A,D,G</td><td>A,D,G,J</td><td></td><td>D,G,N3</td><td></td><td></td></td></thd<></thd<></thd<></td></thd<></thd<></thd<> | N2         B         G         A,K         A,G         A,G         A,G         A,D         D,G,NI         D         G         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         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  D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th=""> <thd< th=""> <thd< th=""> <!--</td--><td>N2         B         G         A/K         A/G         A         D         A/D/I         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D  
      D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         <thd< th="">         D         D         D</thd<></td><td>2DPC         3DPC         4DPC         5DPC         6DPC         7DPC         8DPC         9DPC           A,D,K,M,N4         A,D,K,M,N4         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A<td></td><td>Р</td><td></td><td></td><td></td><td></td><td></td><td></td><td>C,D,G,L,N4</td><td>A,D,K</td><td>A,D,G</td><td>A,D,G,J</td><td></td><td>D,G,N3</td><td></td><td></td></td></thd<></thd<></thd<> | N2         B         G         A/K         A/G         A         D         A/D/I         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th="">         D         D         D</thd<>                                                                                                                                                                                                                         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 A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A <td></td> <td>Р</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C,D,G,L,N4</td> <td>A,D,K</td> <td>A,D,G</td> <td>A,D,G,J</td> <td></td> <td>D,G,N3</td> <td></td> <td></td>                                                                                                                                                                                                  |                    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| N3         AD,GJ         A,D,G         A,D,G         A,D,G         A,D,G         A,D,G         A,D,M         D         A,D,M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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M3ADIGJA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,D,GA,                                                                                                                                                                                                                                                                                     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M3ADGJADGJADGADGADGADGADGADGADADAD2BGNAXAGADADADGDCDDDD1AAADADAGADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADADAD </td <td>DG(N3)A,D(G,A,D(G,A,D(K)C,O(G)(L)(MADA,D(M)DGGNN12BGNA,CA,GA,GA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,D<td< td=""><td>DG/N3         A,D/G,J         A,D/G         A,D/K         C,D/G,L/M4         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>DG/N3         A,D/G         A,D/K         C,D/G,L/M4           N2         B         G         A,D/K         A,G         A         A         D         A,D/M1         D         G         D         D         D         D         D         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>D,G,N3         A,D,G,J         A,D,G         A,D,X         C,D,G,L,M4         A         D         A,D,N1         D         G         G         G         G         G         G         G         G         G         G 
       G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G</td><td>D,G,N3         A,D,G,J         A,D,G         A,D,K         C,D,G,L,M4           N2         B         G         A,D         A,C         A,G         A         A         B         G         A         A         A         A         B         G         B         G         A         A,G         A,G         A         B         B         G         B         G         A         B         A         B         B         G         D         A,G         A,G         A,G         A,G         A,D,G         A,D,M         D         G         D         G         D         A         A,G         A,G         A,G         A,D,G         A,D         G         D,G         D         A         A,G         &lt;</td><td>D,G,N3         A,D,G_J         A,D,G         A,D,K         C,D,G,L,M4           N2         B         G         A,D         A,G         A         D         A,D,N1         D         G         P           D,G,N1         D,G,N1         G         D         A,D,K         A,D         A,D         G         D,G         P         A,D,N1         D         G         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P<!--</td--><td>20PC 30PC 40PC 50PC 60PC 70PC 80PC 90PC</td><td></td><td></td><td></td><td></td><td>а</td><td></td><td></td><td></td><td></td><td></td><td></td><td>A,D,K,M,N4</td><td></td><td></td><td></td><td></td></td></td<></td>                                                                                                                                                                                                                                                                                                                                                                        | DG(N3)A,D(G,A,D(G,A,D(K)C,O(G)(L)(MADA,D(M)DGGNN12BGNA,CA,GA,GA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,DA,D <td< td=""><td>DG/N3         A,D/G,J         A,D/G         A,D/K         C,D/G,L/M4         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>DG/N3         A,D/G         A,D/K         C,D/G,L/M4           N2         B         G         A,D/K         A,G         A         A         D         A,D/M1         D         G         D         D         D         D         D         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D</td><td>D,G,N3         A,D,G,J         A,D,G         A,D,X         C,D,G,L,M4         A         D         A,D,N1         D         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G</td><td>D,G,N3         A,D,G,J         A,D,G         A,D,K         C,D,G,L,M4           N2         B         G         A,D         A,C         A,G         A         A         B         G         A         A         A         A         B         G         B         G         A         A,G         A,G         A         B         B         G         B         G         A         B         A         B         B         G         D         A,G         A,G         A,G         A,G         A,D,G         A,D,M         D         G         D         G         D         A         A,G         A,G         A,G         A,D,G         A,D         G         D,G         D         A         A,G         &lt;</td><td>D,G,N3         A,D,G_J         A,D,G         A,D,K         C,D,G,L,M4           N2         B         G         A,D         A,G         A         D         A,D,N1         D         G         P           D,G,N1         D,G,N1         G         D         A,D,K         A,D         A,D         G         D,G         P         A,D,N1         D         G         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P<!--</td--><td>20PC 30PC 40PC 50PC 60PC 70PC 80PC 90PC</td><td></td><td></td><td></td><td></td><td>а</td><td></td><td></td><td></td><td></td><td></td><td></td><td>A,D,K,M,N4</td><td></td><td></td><td></td><td></td></td></td<>                                                                                                                                                                                                                                                                                                       | DG/N3         A,D/G,J         A,D/G         A,D/K         C,D/G,L/M4         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A  
      D         A         D         A         D         A         D         A         D         A         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DG/N3         A,D/G         A,D/K         C,D/G,L/M4           N2         B         G         A,D/K         A,G         A         A         D         A,D/M1         D         G         D         D         D         D         D         D         G         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D,G,N3         A,D,G,J         A,D,G         A,D,X         C,D,G,L,M4         A         D         A,D,N1         D         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D,G,N3         A,D,G,J         A,D,G         A,D,K         C,D,G,L,M4           N2         B         G         A,D         A,C         A,G         A         A         B         G         A         A         A         A         B         G         B         G         A         A,G         A,G         A         B         B         G         B         G         A         B         A         B         B         G         D         A,G         A,G         A,G         A,G         A,D,G         A,D,M         D         G         D         G         D         A         A,G         A,G         A,G         A,D,G         A,D         G         D,G         D         A         A,G         <                                                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       P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P </td <td>20PC 30PC 40PC 50PC 60PC 70PC 80PC 90PC</td> <td></td> <td></td> <td></td> <td></td> <td>а</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A,D,K,M,N4</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20PC 30PC 40PC 50PC 60PC 70PC 80PC 90PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                       | A,D,K,M,N4                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |           |                                                                                                               |
| N3AD,K,M,W4P28GA,D,GA,D,KC,D,G,L,M4A,D,KA,D,MDA,D,MDA28GDA,D,SA,G,KA,D,KA,D,KA,D,KA,D,MDA,D,MDA1AAA,G,LA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,M,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA,D,G,K,L,MA, 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<td>N3ADKM/M4PN3CADK/MCOGL/M4PPN3CADGJADKCOGL/M4PPN1DC/MCADAD/MDCPN3DC/MCADAD/MDCPN1DC/MCADAD/MADCPN2CADAD/MAD/AAD/AAD/AAD/AN1DC/MA/AADCCPAN2A/AA/AA/AAD/AAD/AAD/AA/AN3DC/MA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/A<td>NoADK,MM4PP0.6/N3×AD(G)AD(G)AD(KCD(G),MMPP0.6×AD(G)AD(G)AD(KAD(KAD(KPP0.6SAD(G)AD(G)AD(KAD(KAD(KAD(KPP0.6/N1D(G)GD(G)AD(KAD(KAD(KAD(KAD(KAD(K0.6/N1AAD(KAD(KAD(KAD(KAD(KAD(KAD(K0.0JAAD(KAD(K,MMAD(K,MMAD(KAD(KAD(K0.0J/KAB(KAD(KAD(KAD(KAD(KAD(K0.1AAD(KAD(KAD(KAD(KAD(KAC0.1CAD(KAD(KAD(KAD(KAD(KAD(K0.1CAD(KAD(KAD(KAD(KAD(KAD(K0.1CAD(KAD(KAD(KAD(KACA0.1CAD(KAD(KAD(KAD(KAA0.1CAD(KAD(KAD(KAD(KAA0.1CAD(KAD(KAD(KAD(KAA0.1AAAAAAA0.1CAD(KAD(KAD(KAD(KAA0.1AAAAAAA0.1AAAAAAA<td< td=""><td>AD,KM,M4         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P,D,K        
C,D,G,L,M4         P,D,K         P,D,K</td><td>ADX.M.N4         P           DG.N3         A.D.K.M.N4           D.G.N3         A.D.K.G.           N2         B         G         A.D.K         A.D.K.         A.D.K.         A.D.K.           N2         B         G         A.D.K         A.G.K         A.G.K         A.D.K         A.D</td><td>P         AD,K,M,N4         P         P           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,M,M         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,M,M         A,D,K         P         P           N2         B         G         D         A,D,K         A,G,G         A,D,K         A,D,K         P         P           D,G,N1         D,G,N1         G         D,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,D,K         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,G,G</td><td>PDG/N3         A,D,K,M,N4         P         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,L,M4         A         D,G         P         P           N2         B         G         D         A,D,K         A,G         A         D         A,D,N1         D         G         D         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P</td><td>A,D,X,M,N4         P           D,G,N3         A,D,G,I         A,D,K         C,D,G,L,N4           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,L,N4           N2         B         G         A,K         A,G         A         D         A,D,N1         D         G         P           D,G,N1         D,G,N1         G         D         A,D,N1         D         G         P         P           N1         A         A         A,D,G         A,D,G         A,D,G         A,D,G         A,G         A,G         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         &lt;</td><td></td><td>16DPC 17DPC 18DPC 19DPC 200</td><td>14DPC 15DPC</td><td>13DPC</td><td>12DPC</td><td>11DPC</td><td>10DPC</td><td>9DPC</td><td>8DPC</td><td>7DPC</td><td>6DPC</td><td>SDPC</td><td>4DPC</td><td>3DPC</td><td>2DPC</td><td>1DPC</td><td></td></td<></td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N3ADKM/M4PN3CADK/MCOGL/M4PPN3CADGJADKCOGL/M4PPN1DC/MCADAD/MDCPN3DC/MCADAD/MDCPN1DC/MCADAD/MADCPN2CADAD/MAD/AAD/AAD/AAD/AN1DC/MA/AADCCPAN2A/AA/AA/AAD/AAD/AAD/AA/AN3DC/MA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/AA/AA/AN4A/AA/AA/AA/AA/A <td>NoADK,MM4PP0.6/N3×AD(G)AD(G)AD(KCD(G),MMPP0.6×AD(G)AD(G)AD(KAD(KAD(KPP0.6SAD(G)AD(G)AD(KAD(KAD(KAD(KPP0.6/N1D(G)GD(G)AD(KAD(KAD(KAD(KAD(KAD(K0.6/N1AAD(KAD(KAD(KAD(KAD(KAD(KAD(K0.0JAAD(KAD(K,MMAD(K,MMAD(KAD(KAD(K0.0J/KAB(KAD(KAD(KAD(KAD(KAD(K0.1AAD(KAD(KAD(KAD(KAD(KAC0.1CAD(KAD(KAD(KAD(KAD(KAD(K0.1CAD(KAD(KAD(KAD(KAD(KAD(K0.1CAD(KAD(KAD(KAD(KACA0.1CAD(KAD(KAD(KAD(KAA0.1CAD(KAD(KAD(KAD(KAA0.1CAD(KAD(KAD(KAD(KAA0.1AAAAAAA0.1CAD(KAD(KAD(KAD(KAA0.1AAAAAAA0.1AAAAAAA<td< td=""><td>AD,KM,M4         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P,D,K         C,D,G,L,M4         P,D,K         P,D,K</td><td>ADX.M.N4         P           DG.N3         A.D.K.M.N4           D.G.N3         A.D.K.G.           N2         B         G         A.D.K         A.D.K.         A.D.K.         A.D.K.           N2         B         G         A.D.K         A.G.K         A.G.K         A.D.K         A.D</td><td>P         AD,K,M,N4         P         P           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,M,M         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,M,M         A,D,K         P         P           N2         B         G         D         A,D,K         A,G,G         A,D,K         A,D,K         P         P           D,G,N1         D,G,N1         G         D,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,D,K         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,G,G</td><td>PDG/N3         A,D,K,M,N4         P         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,L,M4         A         D,G         P         P           N2         B         G         D         A,D,K         A,G         A         D         A,D,N1         D         G         D         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P</td><td>A,D,X,M,N4         P           D,G,N3         A,D,G,I         A,D,K         C,D,G,L,N4           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,L,N4           N2         B         G         A,K         A,G         A         D         A,D,N1         D         G         P           D,G,N1         D,G,N1         G         D         A,D,N1         D         G         P         P           N1         A         A         A,D,G         A,D,G         A,D,G         A,D,G         A,G         A,G         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         &lt;</td><td></td><td>16DPC 17DPC 18DPC 19DPC 200</td><td>14DPC 15DPC</td><td>13DPC</td><td>12DPC</td><td>11DPC</td><td>10DPC</td><td>9DPC</td><td>8DPC</td><td>7DPC</td><td>6DPC</td><td>SDPC</td><td>4DPC</td><td>3DPC</td><td>2DPC</td><td>1DPC</td><td></td></td<></td> |
NoADK,MM4PP0.6/N3×AD(G)AD(G)AD(KCD(G),MMPP0.6×AD(G)AD(G)AD(KAD(KAD(KPP0.6SAD(G)AD(G)AD(KAD(KAD(KAD(KPP0.6/N1D(G)GD(G)AD(KAD(KAD(KAD(KAD(KAD(K0.6/N1AAD(KAD(KAD(KAD(KAD(KAD(KAD(K0.0JAAD(KAD(K,MMAD(K,MMAD(KAD(KAD(K0.0J/KAB(KAD(KAD(KAD(KAD(KAD(K0.1AAD(KAD(KAD(KAD(KAD(KAC0.1CAD(KAD(KAD(KAD(KAD(KAD(K0.1CAD(KAD(KAD(KAD(KAD(KAD(K0.1CAD(KAD(KAD(KAD(KACA0.1CAD(KAD(KAD(KAD(KAA0.1CAD(KAD(KAD(KAD(KAA0.1CAD(KAD(KAD(KAD(KAA0.1AAAAAAA0.1CAD(KAD(KAD(KAD(KAA0.1AAAAAAA0.1AAAAAAA <td< td=""><td>AD,KM,M4         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P,D,K         C,D,G,L,M4         P,D,K         P,D,K</td><td>ADX.M.N4         P           DG.N3         A.D.K.M.N4           D.G.N3         A.D.K.G.           N2         B         G         A.D.K         A.D.K.         A.D.K.         A.D.K.           N2         B         G         A.D.K         A.G.K         A.G.K         A.D.K         A.D</td><td>P         AD,K,M,N4         P         P           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,M,M         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,M,M         A,D,K         P         P           N2         B         G         D         A,D,K         A,G,G         A,D,K         A,D,K         P         P           D,G,N1         D,G,N1         G         D,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,D,K         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,G,G</td><td>PDG/N3         A,D,K,M,N4         P         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,L,M4         A         D,G         P         P           N2         B         G         D         A,D,K         A,G         A         D         A,D,N1         D         G         D         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P</td><td>A,D,X,M,N4         P           D,G,N3         A,D,G,I         A,D,K         C,D,G,L,N4           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,L,N4           N2         B         G         A,K         A,G         A         D         A,D,N1         D         G         P           D,G,N1         D,G,N1         G         D         A,D,N1         D         G         P         P           N1         A         A         A,D,G         A,D,G         A,D,G         A,D,G         A,G         A,G         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         &lt;</td><td></td><td>16DPC 17DPC 18DPC 19DPC 200</td><td>14DPC 15DPC</td><td>13DPC</td><td>12DPC</td><td>11DPC</td><td>10DPC</td><td>9DPC</td><td>8DPC</td><td>7DPC</td><td>6DPC</td><td>SDPC</td><td>4DPC</td><td>3DPC</td><td>2DPC</td><td>1DPC</td><td></td></td<> | AD,KM,M4         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P,D,K         C,D,G,L,M4         P,D,K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ADX.M.N4         P           DG.N3         A.D.K.M.N4           D.G.N3         A.D.K.G.           N2         B         G         A.D.K         A.D.K.         A.D.K.         A.D.K.           N2         B         G         A.D.K         A.G.K         A.G.K         A.D.K         A.D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | P         AD,K,M,N4         P         P           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,M,M         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,M,M         A,D,K         P         P           N2         B         G         D         A,D,K         A,G,G         A,D,K         A,D,K         P         P           D,G,N1         D,G,N1         G         D,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,D,K         A,D,K         A,G,G         A,D,K         A,G,G         A,D,K         A,G,G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PDG/N3         A,D,K,M,N4         P         P           D,G,N3         A,D,G,         A,D,K         C,D,G,L,M4         P         P         P           D,G,N3         B         G         A,D,G         A,D,K         C,D,G,L,M4         A         D,G         P         P           N2         B         G         D         A,D,K         A,G         A         D         A,D,N1         D         G         D         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A,D,X,M,N4         P           D,G,N3         A,D,G,I         A,D,K         C,D,G,L,N4           D,G,N3         A,D,G,I         A,D,G         A,D,K         C,D,G,L,N4           N2         B         G         A,K         A,G         A         D         A,D,N1         D         G         P           D,G,N1         D,G,N1         G         D         A,D,N1         D         G         P         P           N1         A         A         A,D,G         A,D,G         A,D,G         A,D,G         A,G         A,G         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         <                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16DPC 17DPC 18DPC 19DPC 200                                                                                                           | 14DPC 15DPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 13DPC | 12DPC                                 | 11DPC     | 10DPC      | 9DPC                           | 8DPC                                                                     | 7DPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6DPC      | SDPC                                                                                                                                                  | 4DPC                                                                                                                                                                    | 3DPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2DPC                                         | 1DPC      |                                                                                                               |

				-	eptospira	Leptospira canicola White Blood Cell Count Post Challenge	White Blo	ood Cell Co	ount Post	Challenge					
							SC Vaccinates	cinates							
	Baseline (Avg -2DPC, -1DPC, 0DPC)	1DPC	2DPC	3DPC	4DPC	SDPC	6DPC	7DPC	8DPC	90PC	10DPC	11DPC	12DPC	13DPC	14DPC
	22.1	25.8	15.1	17	20.3	19.3	20	20.7	16.5	19.4	19.3	10.7	17.2	19.6	16.6
	12.3	12.4	9.3	9.6	10.5	6	80	12.5	11.8	10.4	8.8	12.7	10.2	9.7	9.1
	21.7	19.8	12.3	12.9	14	15.5	13.6	17.4	19.2	19.3	16.9	15.3	14	23.2	15.7
	13.3	8.8	9.6	12.7	8.2	11.5	12.2	13.1	11.8	8.5	8.5	13.1	9.2	10.2	9.4
	14	13.2	9.5	7.6	8.4	10.1	10.2	9.4	11.4	9.7	11.3	9.3	10.1	10.8	10.5
	14.3	16.1	12.8	11.8	12.2	10.7	13.2	12.5	9.8	7.3	8.8	9.5	10.3	9.9	123
	11	11.4	10.6	10.1	10.2	9.4	11.7	9.7	9.3	9.3	9.1	11.6	11.7	17.2	17.6
	8.9	8.4	80	9.1	8.4	6.6	7.2	7.5	6.4	8.2	7	8.8	7.3	12.3	13.4
	11.2	15.8	10.7	9.1	7.6	80	6	9.2	10.5	11.4	7	13	9.3	7.6	12.7
	11	10.5	9.5	15.1	14.6	14.1	13.9	13.4	20.7	14.9	11.7	16.5	13.2	14.7	21.7
	10.2	15.6	9.4	12.1	9.5	12.7	11	7.3	8.3	11.7	7.7	10.2	9.2	11	11.5
- 1															

		14DPC			21.9	13.9	13.3			12.2			16.9	20.2
		13DPC			29.4	12.7	11.5			16.7			17.4	15.9
		12DPC			26.2	11.5	15			12.69			26.3	15.7
		11DPC			36.7	9.6	13.9			9.2			31.5	10.9
a		10DPC			36.6	16.6	11.3			11.4			20.5	15.3
eptospira canicola White Blood Cell Count Post Challenge		9DPC			28.1	13.8	7.9			8.7			22.8	17.3
ount Post		8DPC			26	11.7	16.2			10.4			22.8	12.6
ood Cell C	Controls	7DPC		20.5	17		21			11.1			13	12
White Blo	Cont	6DPC		14.6	13.6	8	19.4	13.2	17.5	10.6		15.8	8.7	9
canicola		SDPC		15.6	12.6	6.7	8.6	19.4	5.3	7.9	10.3	6.6	4.4	3.8
eptospira		4DPC	21.7	11.5	10	5.7	5.2	7	5	6.1	6	6	5.3	5.6
-		3DPC	7.4	6.1	8.3	5.6	4.1	3.9	4.2	3.2	4	5.3	2.6	3.4
		2DPC	14.2	16.7	13	9.6	5.5	6.4	7.8	9.5	6.4	11.5	6.1	10.1
		1DPC	21.7	20	11.3	7.9	8.9	18.4	19.4	11.9	10.6	12.2	17.5	9.6
		Baseline (Avg -2DPC, -1DPC, 0DPC)	18.3	16.1	17.1	6	10.4	9.6	12.2	9.5	8.9	11.9	11.8	7
		Dog	23	24	25	26	27	28	29	30	31	32	33	34

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	14DPC	470	467	640	461	390	278	572	524	469	583	593
	13DPC	511	510	802	463	399	257	554	516	464	474	495
	12DPC	483	550	508	438	428	232	406	418	462	429	497
	110PC	381	616	568	560	302	261	480	414	601	521	500
	10DPC	512	501	567	482	519	270	405	381	493	501	492
llenge	90PC	631	470	695	497	512	288	483	476	662	581	597
Post Cha	8DPC	478	565	693	576	655	314	463	379	704	650	473
<mark>et Counts</mark> cínates	7DPC	582	636	604	633	558	351	247	375	706	514	469
ola Platelet Cou SC Vaccinates	60PC	531	467	497	612	555	389	542	376	538	441	517
Leptospira canicola Platelet Counts Post Challenge SC Vaccinates	SDPC	512	539	536	503	492	329	453	375	523	469	576
Leptos	4DPC	473	576	444	421	456	324	398	403	483	447	478
	3DPC	452	573	505	543	452	311	381	324	530	476	581
	2DPC	480	559	452	381	409	247	356	353	497	354	455
	1DPC	538	679	571	407	377	243	331	330	494	332	413
	Baseline (Avg -2DPC, -1DPC, 0DPC)	444.3	551.3	473.3	459.7	477.3	318	425.7	348.7	555.3	378.3	469.3
	Dog	12	13	14	15	16	17	18	19	20	21	22

					Leptos	pira canic	Leptospira canicola Platelet Counts Post Challenge	et Counts	s Post Cha	llenge					
							Controls	rols							
Dog	Baseline (Avg -20PC, -10PC, 00PC)	1DPC	2DPC	3DPC	4DPC	SDPC	6DPC	7DPC	BDPC	9DPC	10DPC	11DPC	12DPC	13DPC	14DPC
23	300	238	148	11	<i>L.</i> T	D	Q	D	D	D	D	D	Q	D	D
24	342	204	161	64.1	40.5	45.3	123	207	D	D	D	D	D	D	D
25	519.7	267	213	187	134	117	160	285	497	710	714	823	738	810	717
26	404.7	278	279	196	150	172	194	ND	302	441	721	648	599	590	588
27	482.7	281	225	119	55	49.9	100	157	405	455	492	552	528	428	435
28	242.3	209	60.4	45.9	3.9	111	11.3	D	D	D	D	D	D	D	D
29	529.7	521	305	195	37.6	15.8	42.2	D	D	D	D	D	D	D	D
30	329.3	292	167	107	61.7	81.6	122	242	412	518	697	504	632	596	551
31	432.7	327	150	80.2	38	14	D	D	D	D	D	D	D	D	D
32	395.7	329	195	103	33.3	14.2	44.1	D	D	D	D	D	D	D	D
33	563.7	409	182	115	67.1	8.5	2.4	11.4	87.1	235	417	744	701	726	714
34	232.7	174	150	64.5	41.6	8.3	6.8	82.8	142	273	310	383	479	475	564
ND= No Data	Data														
D = dead															

Study Type	Efficac	у												
Pertaining to	Leptos	pira	grip	opot	yph	osa								
Study Purpose	To den				fecti	iven	ess a	agai	nst	Lepi	tospir	a grip	potyp	<i>hosa</i> in
	6-week													
<b>Product Administration</b>	Two do											,		
Study Animals	Twenty												to one	group
	of 10 S						_		-					
Challenge Description	Fifteen	·	/	•										
	challen	-			-	-	0				-			
Interval observed after	Dogs w	vere	obs	erve	ed d	aily	for	21 c	lays	afte	er cha	llenge		
challenge	<b>T</b> 00		1		1	.1	1				• •		•	
Results	Efficac	-								-	iroche	etemia	1 <b>n</b>	
	vaccina	utes	wne	en co	omp	arec	u to	con	rol	5.				
	Leptos	nira	wa	- <b>n</b> 0	tico	late	d in	anv	of	the 1	vaccir	nates r	eceivi	na
	vaccine	-				face	um	any	01		accii	lates I		ng
	vacenit	JOy	50	IUu	ic.									
	Leptos	oira	was	s iso	late	d fr	om ł	oloo	d co	ollec	ted fr	om do	ogs in	the
	control												-	
	for Day	-	-				•						U	
	Dog	0	3	4	5	6	7	8	9	10	11	12	13	14
	1						+							
	2					+		+	+					
	3				+	+								
	4					+	+							
	5				+	+	+							
	6						+	+	+	+	+	NA	NA	NA
	7				+	+	+	+	+	+	NA	NA	NA	NA
	8					+	+	+	+	+	+	NA	NA	NA
	9				+	+	+	+	+	+	+	NA	NA	NA
	10					+	+	+	+	+	+	NA	NA	NA
	NA is Ar	nima	l Dea	d or	euth	naniz	ed /	no sa	amp	le tak	en		1	1
	+ is Posi						-							
				•	•									
USDA Approval Date	January	/ 12	, 19	99										

Study Type	Efficacy
Pertaining to	Leptospira icterohaemorrhagiae
Study Purpose	To demonstrate effectiveness against <i>Leptospira</i>
	icterohaemorrhagiae in 6 week old dogs.
Product Administration	Two doses were administered subcutaneously (SC) 3 weeks
	apart.
Study Animals	Twenty-two (22) 6-week-old puppies serologically negative for
	Leptospira icterohaemorrhagiae were randomized into one
	group of 10 SC vaccinates and one group of 12 controls.
Challenge Description	Twenty-one (21) days after second vaccination all animals were challenged with <i>Leptospira icterohaemorrhagiae</i> organisms.
Interval observed after	Dogs were observed daily for 21 days after challenge for
challenge	clinical signs associated with <i>L. icterohaemorrhagiae</i> . Blood samples were collected through 14 days after challenge.
Results	Efficacy was determined by comparing vaccinates versus controls in clinical signs, thrombocytopenia, and leukopenia.
	A dog was considered to have thrombocytopenia if the platelet count dropped below 200 k/ $\mu$ L and the count was less than 50% of the baseline value.
	A dog was considered to have leukopenia if the platelet count dropped below 6 $k/\mu L$ and the count was less than 50% of the baseline value.
	See the next page for data.
USDA Approval Date	March 31, 1998

						J	Leptospira Ictero Clinical Signs Observed Post Challenge	tro Clinical	Signs Obse	rved Post	Challe	agu									
								SCI	SC Vaccinates												
Dog	00PC	10PC	20PC	30PC	40PC	SDPC	60PC	70PC	8DPC	9DPC	100PC	100PC  11DPC  12DPC  14DPC  15DPC  15DPC  17DPC  18DPC  19DPC  20DPC  21DPC	2DPC 13	10PC 14	DPC 15D	PC 16DP	C 17DP	C 18DPC	19DPC	200PC	21DPC
п							A														
12																					
13				•••		9											•••	•			
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17																					
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19							E														
8			•	•		٩	٥					•									
	A-inane	A-inappetance			F-Nacal Die	F - Nacal Discharge Service		K - Bloody Line	ą												
	B-Vomiting	ting			G - Nasal Dis	G - Nasal Discharge Mucoid		L-Fever>103.0 <sup>1</sup> F	95												
	C-Dep	ression	C - Depression/Lethargy		H-Diarrheal	H- Diarrhea Mild (loose stool)		M - Death													
	D-00	ar Disc	D- Ocular Discharge Serous	SILO	I- Diarrhea N	I- Diarrhea Moderate (Watery stool)	(lool)	Blank - no clinical Sign observed	nical Sign obs	served											
	E - Ocul	lar Disc	E - Ocular Discharge Mucoid	coid	J - Diarrhea S	<ul> <li>J - Diarrhea Severe (bloody stool)</li> </ul>	()0														
DPC	= Day	post-	DPC = Day post-challenge	1ge																	
					_																

Leptospira Ictero Clinical Signs Observed Post Challenge Controls	40PC 50PC 60PC 70PC 80PC 90PC 100PC 100PC 120PC 120PC 140PC 150PC 150PC 150PC 170PC 180PC 190PC 200PC 200PC 210PC	The second secon						D E D D	(CD,J		A,E M	A E D		asal Discharge Serous K - Bloody Urine K		H-Diarrhea Mild (loose stool) M - Death	- Diarrhea Moderate (Watery stool) Blank - no clinical Sign observed	J - Diarrhea Severe (bloody stool)
Leptospira Ictero Clini		A						-				A	ш					y stool)
	4DPC 5DPC	u.	-						A,C,D,J	0	A,E			F - Nasal Discharge Serous	G - Nasal Discharge Mucoid	H- Diarrhea Mild (loose s	I- Diarrhea Moderate (Wa	J - Diarrhea Severe (blood
	3DPC			-	1			0	X		L,D	ш						
	2DPC			_	_			_	L,E	_		_				ethargy	arge Serou	arge Muco
	0DPC 1DPC													A-inappetance	8-Vomiting	C - Depression/Lethargy	D- Ocular Discharge Serous	E - Ocular Discharge Mucoid
	Dog	21	22	23	24	25	26	27	28	29	30	31	32					

DPC = Day post-challenge

		14DPC	6.4	12.3	8.4	9.1	10.9	8.3	7.3	6.4	6.7	8.9	
		13DPC	7.2	9.1	7.8	12.8	7.5	8.3	7.5	7.8	8.8	8.1	
		12DPC	9.6	6	7.8	10	111	10	10.2	6.5	7	7.6	
		110PC	9.7	10.2	6.7	9.8	7.7	9.5	7.1	8.1	7.8	12.6	
		100PC	8.9	7.7	10.6	13.2	10.4	8.7	11.7	6	7.7	12.5	
hallenge		9DPC	8.5	8.6	8.3	8	7.5	7.7	7.6	8	8.2	8.7	
int Post C		BDPC	6.4	11.1	9.6	11.8	80	10.1	11.4	7.4	7.5	9.1	
d Cell Cou	inates	7DPC	6.4	8.2	9.2	7.3	10.2	8.4	9.4	8.4	10.5	6.4	
/hite Bloo	SC Vaccinates	6DPC	6.4	15.2	8.8	9.3	11.2	9.4	10.5	7.1	6.7	14.4	
a ictero M		SDPC	10.1	12.4	14.2	11.3	8.3	9.1	7.2	7.3	8.7	14.8	Г
Leptospira ictero White Blood Cell Count Post Challenge		4DPC	6.8	9.1	9.1	12.6	8	8.1	7.5	6.6	11.7	11.9	
		3DPC	7.9	8.9	13.2	8.2	6	6.8	8.1	9.1	11.7	9.1	
		2DPC	12.4	10.4	9.6	12.6	9.8	9.5	7.8	10.5	8.4	5.3	
		1DPC	7.3	13.9	15.4	7.6	11.4	8.8	7.1	7.7	13.8.	9.9	
		Baseline (Avg -2DPC, -1DPC, 0DPC)	7.2	10	7.6	13.4	9.8	9.1	9.1	7.2	9.5	13.1	
		Dog	11	12	13	14	15	16	17	18	19	20	

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					Leptospin	a ictero V	Leptospira ictero White Blood Cell Count Post Challenge	od Cell Co	unt Post (	Challenge					
Dog	Baseline (Avg -2DPC, -1DPC, 0DPC)	10PC	2DPC	3DPC	4DPC	SDPC	6DPC	7DPC	8DPC	9DPC	10DPC	11DPC	12DPC	13DPC	14DPC
21	7.4	6.6	9.6	6.7	8.2	6.2	8.6	6.7	6.5	8.1	10.4	6.4	8.5	6.5	6.2
22	7.4	8.5	9.3	8.2	6.5	7.3	13.4	9.4	7.2	8.2	13.4	10.1	7.7	7.6	9.4
23	9.3	12.2	9.4	11.6	7.1	6	10	7	6.5	7.1	11.9	7	9.6	11	11.8
24	13.7	19.6	10.6	7.8	11.8	15.3	16.7	19.8	16	13.7	19.2	24.9	13.3	24.4	12.3
25	10	13.9	8.5	6.9	9.1	7	10.9	12.8	9.6	10	13.9	9.4	8.3	6	7.1
26	8.4	8.6	6	3.9	11.8	12.2	15.4	11.3	11.8	6	10.2	13.3	8.6	8.9	10.5
27	7.8	7.5	9.4	15.8	14.6	10.7	9.8	7.5	8.6	12.1	8.6	8.3	11.4	7.4	9.5
28	7.8	8.8	6.7	4.5	7.3	7.3	8.8	14.7	10	11.6	11.7	14	8.3	7.8	7.7
29	7.8	6.7	5.8	4.1	26.4					D	0				
30	8.8	7.6	5	7.2	7.8	7.5	7.8	6.2	9.9	8	10.3	10.1	6.6	9.4	9.6
31	11	8.1	8.3	4.2	19					D	0				
32	8.3	9.3	6.2	5	10.7	12.6	10.6	13.5	14.5	9.6	14.1	6.6	10	10.1	9.3
D = dead															
						Г									
PC =	DPC = Day post-challenge. Values reported as	hallenge.	Values re		k/μL.	_									

				Le	Leptospira ictero Platelet Counts Post Challenge	ictero	Platelet	Counts	Post Ch	allenge					
							SC Vaccinates	nates							
Dog	Baseline (Avg -2DPC, -1DPC, 0DPC)	1DPC	2DPC	3DPC	4DPC	SDPC	6DPC	7DPC	SDPC	9DPC	10DPC	11DPC	12DPC	13DPC	14DPC
11	449.7	432	619	476	440	667	457	447	488	442	591	586	536	471	359
12	518.3	475	456	447	428	526	645	435	480	505	487	453	473	461	517
13	489.3	595	425	560	424	580	445	517	416	508	522	415	347	337	349
14	451.7	258	413	349	457	374	344	335	376	331	431	330	263	351	281
15	357.7	380	297	286	275	282	435	400	314	285	388	288	401	290	369
16	369	264	298	217	264	278	308	268	281	253	316	258	286	284	294
17	473.7	407	400	386	332	214	542	457	513	436	529	417	498	373	381
18	506	482	569	392	397	351	393	419	327	424	406	388	283	391	287
19	477	467	386	552	529	417	459	500	378	489	356	383	331	406	352
20	502.3	412	506	483	525	515	555	352	392	358	488	501	325	340	378
DPC =	DPC = Day post-challenge. Values reported as $k/\mu L$ .	allenge. V	Values rep	orted as k	/μL.										

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eported	
Values r	
post-challenge.	
Day	
DPC =	

							Controls	ols							
Dog (F	Baseline (Avg -2DPC, -1DPC, 0DPC)	1DPC	2DPC	3DPC	4DPC	SDPC	6DPC	7DPC	SDPC	9DPC	10DPC	11DPC	12DPC	13DPC	14DPC
21	534.3	291	315	207	301	341	545	506	529	537	575	434	399	414	410
22	428.7	238	250	168	126	184	261	288	340	412	520	421	369	386	367
23	411.3	374	307	265	289	362	393	361	369	447	546	444	422	583	535
24	344.7	251	130	99.5	116	189	312	497	440	480	618	635	461	658	451
25	566	401	220	146	189	288	483	611	458	466	660	519	427	432	409
26	392	302	213	94.9	84.5	210	361	381	421	444	467	578	513	452	388
27	475.7	399	423	483	413	335	386	437	465	575	469	461	540	372	474
28	411.7	214	93.5	60.5	128	213	307	332	467	612	622	618	495	467	383
29	332	136	101	6.7	11.2						D				
30	421.9	204	80.9	53.9	119	231	379	512	549	516	642	494	411	421	427
31	319.3	163	94.4	36.7	11.9						D				
32	267	184	55	7.7	88.8	196	257	347	525	430	529	360	337	287	301
D = Dead															

Study Type	Efficac	ey (														
Pertaining to	Leptos		por	non	a											
Study Purpose	To den	nons	strat	e ef	fect	iver	ness	aga	inst	Lep	otos	pira	poi	mon	a in	6
	week o	ld d	logs	•				_		_			-			
<b>Product Administration</b>	Two do	oses	we	re a	dmi	niste	ered	sul	ocut	aneo	ousl	y (S	<b>C</b> )	3 we	eeks	apart
Study Animals	Twenty															
	Leptos											ofo	ne g	grou	p of	f 10
	SC vac															
Challenge Description	Twenty												all a	nim	als	were
	challen															
Interval observed after	Dogs v					-			-				_			d
challenge	sample															
Results	Efficac	•								-	oiro	chet	em	a in		
	vaccina	ates	wh	en c	omp	bare	d to	cor	trol	s.						
	Tantaa			~	<b>.</b> :	1.4.	16		1.1 .				6 4 1.		:	
	Leptos receivi								0100	od 11	n an	iy oi	the	e va	ccin	ates
	IECEIVI	ng v	acc	inc	Uy S		out									
	Leptos	nira	wa		late	d fr	om	blo	od c	ماله	cter	1 fro	m	اممد	in t	he
	control group after challenge, as shown in the following table for Days $0 - 14$ (post-challenge):															
				· ur		спа	llen									
	Dog	0	1	2	3	4	5	<u>5</u> C). 6	7	8	9	10	11	12	13	14
	Dog	0	1	2+	3	4	5	Ē ,	7	8	9	10	11	12	13	14
	1	0	1					Ē ,	7	8	9	10	11	12	13	14
	1 2	0	1	+	3 +	4 +	5	Ē ,	7	8	9	10	11	12	13	14
	1 2 3	0	1		3 + + +	4 + +	5	Ē ,	7	8	9	10	11	12	13	14
	1 2 3 4	0	1	+ +	3 + + +	4 + + + +	5 +	Ē ,	7	8	9	10	11	12	13	14
	1 2 3 4 5	0	1	+ + + +	3 + + + +	4 + +	5	Ē ,	7	8	9	10	11	12	13	14
	1 2 3 4			+ + + + +	3 + + + + + +	4 + + + +	5 +	Ē ,	7	8	9	10	11	12	13	14
	1 2 3 4 5		1	+ + + + + +	3 + + + + + + +	<b>4</b> + + + + +	5 +	Ē ,	7	8	9	10	11	12	13	
	1 2 3 4 5 6			+ + + + +	3 + + + + + + + + +	4 + + + +	5 +	Ē ,	7	8	9	10	11	12	13	
	1 2 3 4 5 6 7			+ + + + + +	3 + + + + + + +	<b>4</b> + + + + +	5 +	Ē ,	7	8	9	10	11	12	13	
	1 2 3 4 5 6 7 8		+	+ + + + + + + +	3 + + + + + + + + +	<b>4</b> + + + + + + + +	5 +	Ē ,	7	8	9		11	12	13	
	1 2 3 4 5 6 7 8 9		+++++++++++++++++++++++++++++++++++++++	+ + + + + + + + + +	3 + + + + + + + + + + + + +	4 + + + + + + + + + + + + + + + + + + +	5 +	Ē ,	7	8	9				13	
	1 2 3 4 5 6 7 8 9 10	itive	+ + + for l	+ + + + + + +	3 + + + + + + + + + + + + +	4 + + + + + + + + + + + + + + + + + + +	5 +	Ē ,	7	8	9				13	

Study Type	Safety									
Pertaining to	All fractions									
Study Purpose	Demonstrate safety	of pro	duct under	typical	use cond	itions				
Product	Two doses were adr	niniste	red subcut	aneous	ly (SC) at	2-3 we	ek intervals			
Administration	in dogs 6 weeks of a	age or o	older.							
Study Animals	A total of 624 dogs,	privat	ely owned	and fro	om comme	ercial k	ennels,			
	were enrolled in the	study.	From thes	se dogs	, 341 were	e 6 wee	ks of age or			
	younger, at first vac	cinatic	on.							
Challenge	Not applicable									
Description										
Interval	No challenge. Dog						g each			
observed after	vaccination and dail	ly for t	wo weeks	after ea	ich vaccin	ation.				
challenge										
Results	Frequency of advers	se even	its:							
	Post Vaccination	Reacti	on Occurre	nce by o	doses. Tota	al Doses	s = 1223			
	Reaction Category≤ 6 Week old Dogs> 6 Weeks old DogsTotal Doses#Percent#Percent#Percent									
	No adverse events	673	99.26%	538	98.72%	1211	99.02%			
	lethargy	0	0.00%	1	0.18%	1	0.08%			
	Swelling	0	0.00%	3	0.55%	3	0.25%			
	Injection Site pain	5	0.74%	1	0.18%	6	0.49%			
	Pruritus	0	0.00%	2	0.37%	2	0.16%			
	Increased Thirst	0	0.00%	1	0.18%	1	0.08%			
	*25 dogs only recei	ved on	e vaccinati	ion. Eit	her they d	id not 1	eturn for			
	follow-up or were r									
	cooperator to be uni					2	-			
USDA Approval	November 2, 1998									
Date	,									