**Summary of Studies Supporting USDA Product Licensure**

<table>
<thead>
<tr>
<th>Establishment Name</th>
<th>Boehringer Ingelheim Animal Health USA Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>USDA Vet Biologics Establishment Number</td>
<td>124</td>
</tr>
<tr>
<td>Product Code</td>
<td>44A5.20</td>
</tr>
<tr>
<td>True Name</td>
<td>Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza 3-Respiratory Syncytial Virus Vaccine, Killed Virus, Mannheimia Haemolytica Bacterin</td>
</tr>
</tbody>
</table>
| Tradename(s) / Distributor or Subsidiary (if different from manufacturer) | Triangle 4+PH-K - Boehringer Ingelheim Animal Health South Africa (Pty) Ltd/ (Edms) Bpk  
Triangle 4+PH-K - Ingelheim Pharmaceuticals (Pty) Ltd.  
Triangle 4+PH-K - No distributor specified |
| Date of Compilation Summary            | April 08, 2019                             |

**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.
<table>
<thead>
<tr>
<th><strong>Study Type</strong></th>
<th>Efficacy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pertaining to</strong></td>
<td>Bovine Virus Diarrhea (BVD)</td>
</tr>
<tr>
<td><strong>Study Purpose</strong></td>
<td>Demonstration of efficacy against BVD Type 1 (respiratory disease)</td>
</tr>
<tr>
<td><strong>Product Administration</strong></td>
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<td><strong>Study Animals</strong></td>
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</tr>
<tr>
<td><strong>Challenge Description</strong></td>
<td>BVD isolate NY-1, Type 1b</td>
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<tr>
<td><strong>Interval observed after challenge</strong></td>
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<tr>
<td><strong>Results</strong></td>
<td>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.</td>
</tr>
<tr>
<td><strong>USDA Approval Date</strong></td>
<td>November 20, 1996</td>
</tr>
<tr>
<td><strong>Study Type</strong></td>
<td>Efficacy</td>
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<tr>
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<tr>
<td><strong>Pertaining to</strong></td>
<td>Infectious Bovine Rhinotracheitis (IBR)</td>
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<td><strong>Study Purpose</strong></td>
<td>Demonstration of efficacy against IBR (respiratory disease)</td>
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<td><strong>Product Administration</strong></td>
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<td><strong>Pertaining to</strong></td>
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<td><strong>Study Animals</strong></td>
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<td>Pertaining to</td>
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