



## Summary of Studies Supporting USDA Product Licensure

Establishment Name	Immvac, Inc.
USDA Vet Biologics Establishment Number	345
Product Code	7910.00
True Name	Salmonella Typhimurium Bacterin-Toxoid
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Endovac-Equi - Endovac Animal Health LLC
Date of Compilation Summary	October 28, 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.**

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	<i>Escherichia coli</i>
<b>Study Purpose</b>	Efficacy against endotoxemia-mediated disease due to <i>Escherichia coli</i>
<b>Product Administration</b>	
<b>Study Animals</b>	Horses
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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.
<b>USDA Approval Date</b>	May 11, 1990

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	<i>Salmonella typhimurium</i> and <i>Escherichia coli</i>
<b>Study Purpose</b>	Efficacy against endotoxemia-mediated disease due to <i>Salmonella typhimurium</i> and <i>Escherichia coli</i>
<b>Product Administration</b>	
<b>Study Animals</b>	Horses
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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.
<b>USDA Approval Date</b>	May 11, 1990

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	<i>Salmonella typhimurium</i>
<b>Study Purpose</b>	Efficacy against endotoxemia-mediated disease due to <i>Salmonella typhimurium</i>
<b>Product Administration</b>	
<b>Study Animals</b>	Horses
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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.
<b>USDA Approval Date</b>	May 11, 1990

<b>Study Type</b>	Safety
<b>Pertaining to</b>	All
<b>Study Purpose</b>	Demonstrate safety under typical field conditions
<b>Product Administration</b>	Horses
<b>Study Animals</b>	
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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.
<b>USDA Approval Date</b>	May 11, 1990