



## Summary of Studies Supporting USDA Product Licensure

Establishment Name	Zoetis Inc.
USDA Vet Biologics Establishment Number	190
Product Code	4993.20
True Name	Swine Influenza Vaccine, H1N1 & H3N2, Killed Virus, Erysipelothrix Rhusiopathiae Bacterin
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	FluSure ER - Zoetis Japan Inc. FluSure/ER Bac Plus - No distributor specified Not Listed - No distributor specified
Date of Compilation Summary	February 16, 2023

**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>Erysipelothrix rhusiopathiae</i>
<b>Study Purpose</b>	Demonstrate a duration of immunity of at least 20 weeks against <i>Erysipelothrix rhusiopathiae</i>
<b>Product Administration</b>	
<b>Study Animals</b>	Swine
<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>	November 24, 1998

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	<i>Erysipelothrix rhusiopathiae</i>
<b>Study Purpose</b>	Demonstrate effectiveness against <i>Erysipelothrix rhusiopathiae</i>
<b>Product Administration</b>	
<b>Study Animals</b>	Swine
<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>	November 24, 1998

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Swine Influenza Virus H1N1
<b>Study Purpose</b>	To demonstrate efficacy against respiratory disease due to Swine Influenza Virus H1N1 including clinical signs, lung lesions, viral shedding (numbers of animals and numbers of days), and viral persistence in the lung
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	Minnesota SIV isolate 01-10597H1 (H1N1)
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
<b>USDA Approval Date</b>	12FEB2002

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Swine Influenza Virus H3N2
<b>Study Purpose</b>	To demonstrate efficacy 10 weeks after vaccination against respiratory disease due to Swine Influenza Virus H3N2
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	NADC Swine Influenza Virus Isolate 3 (H3N3)
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
<b>USDA Approval Date</b>	21OCT2003

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Swine Influenza Virus H3N2
<b>Study Purpose</b>	To demonstrate short term efficacy after vaccination against respiratory disease due to Swine Influenza Virus H3N2 including clinical signs, lung lesions, viral shedding (numbers of animals and numbers of days), and viral persistence in the lung
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	NADC SIV isolate 3 (H3N2)
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
<b>USDA Approval Date</b>	November 15, 2001

<b>Study Type</b>	Safety
<b>Pertaining to</b>	All
<b>Study Purpose</b>	Demonstrate safety under field conditions in piglets
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
<b>USDA Approval Date</b>	February 12, 2002

<b>Study Type</b>	Safety
<b>Pertaining to</b>	All
<b>Study Purpose</b>	Demonstrate safety under field conditions in piglets
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
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<b>USDA Approval Date</b>	February 12, 2002

<b>Study Type</b>	Safety
<b>Pertaining to</b>	All
<b>Study Purpose</b>	Demonstrate safety under field conditions in pregnant sows
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
<b>USDA Approval Date</b>	April 29, 2002

<b>Study Type</b>	Safety
<b>Pertaining to</b>	All
<b>Study Purpose</b>	Demonstrate safety under field conditions in pregnant sows
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
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<b>Study Purpose</b>	Demonstrate safety under field conditions in pregnant sows
<b>Product Administration</b>	Two doses administered intramuscularly
<b>Study Animals</b>	Swine
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	<p>Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission.</p> <p>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.</p>
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