

# MERCK ANIMAL HEALTH

## Intervet Inc.

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Every effort has been made to ensure the accuracy of the information published. However, it remains the responsibility of the readers to familiarize themselves with the product information contained on the USA product label or package insert.

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Argus® SC/ST without Diluent

## Intervet/Merck Animal Health

### Salmonella Choleraesuis Vaccine

#### Avirulent Live Culture

*Salmonella choleraesuis* vaccine is used as an aid in the prevention of pneumonia, diarrhea, septicemia and mortality caused by *Salmonella choleraesuis* and as an aid in the control of disease and shedding caused by *Salmonella typhimurium*.

**DIRECTIONS:** Administer to healthy swine 3 weeks of age or older.

**WATER ADMINISTRATION:** This product was developed to be used exclusively by the oral route of administration. See detailed instructions: WATER DELIVERY OF VACCINE.

#### WATER DELIVERY OF VACCINE:

- Do not open or mix Argus® SC/ST until ready to vaccinate.
- Remove all medications, sanitizers or disinfectants from drinking water before initiating oral vaccination and flush watering system to eliminate any residuals.
- Water may be withheld for one to two (1-2) hours before vaccination.
- Wearing protective gloves, rehydrate each vial of Argus® SC/ST (desiccated cake) by removing the metal ring and rubber stopper; partially fill vial with cool clean water (suggest 30 mL/100 dose vial or 50 mL/500 dose vial); replace and hold stopper firmly; agitate gently until contents fully dissolve.
- Place the vial(s) contents into the proportioner reservoir, along with additional cool clean water to provide a final stock solution volume to run 4-6 hours of delivery, as determined by the number and size of pigs, estimated in **Table 1**.
- Set proportioner to deliver 1 ounce (30 mL) per gallon (3.75 L) into the drinking water.
- Insert proportioner hose into Argus® SC/ST final stock solution and engage into drinking water line flow. Occasional remixing of the vaccine solution 2 to 3 times during the vaccination procedure aids in assuring a uniform dose for all swine. Pigs should consume vaccine within 4-6 hours after its rehydration.
- When all vaccine solution has been consumed, return to non-treated water flow. Disinfect and rinse the reservoir.

- Do not use antibiotics, sulfonamides or other medications in feed or water for 3 days before and 3 days after vaccination.

**Table 1. Estimating doses to use:**

rehydrate with 30 mL/100 dose vial = 10 doses/3 mL.

**Estimating final stock solution volume:**

rehydrate with 50 mL/500 dose vial = 10 doses/1 mL.

Body Weight (Lbs.)	Average Water Consumption in Gallons/100 Animals in a 4 HOUR Period <sup>1</sup>	Final Stock Solution Volume	Average Water Consumption in US Gallons Per 500 Animals in a 4 Hour Period <sup>1</sup>	Final Stock Solution Volume in Ounces (oz.)
10	3.0 gal.	3.0 oz.	15.0 gal.	15.0 oz.
15	4.5	4.5	22.5	22.5
20	6.0	6.0	30.0	30.0
25	7.5	7.5	37.5	37.5
50	15.0	15.0	75.0	75.0
75	22.5	22.5	112.5	112.5
100	30.0	30.0	150.0	150.0
150	45.0	45.0	225.0	225.0
200	60.0	60.0	300.0	300.0
250	75.0	75.0	375.0	375.0

<sup>1</sup> Calculations based on average daily water consumption of 15% of body weight. Young pigs or lactating sows may consume up to 20% of body weight.

**NOTE:** 1 fluid ounce (oz.) = 30 mL

16 fluid oz. = 1 pint

32 fluid oz. = 1 quart

128 fluid oz. = 1 US gallon

**EXAMPLE:** To vaccinate 90 pigs averaging 25 lbs./hd, following across the row for 25 lb. pigs shows that 100 pigs consume approximately 7.5 gallons drinking water over a 4 hour period, requiring 7.5 oz. final stock solution; rehydrate one 100 dose vial of Argus® SC/ST with a measured 30 mL of tap water; withdraw 27 mL of rehydrated vaccine (90 doses) and dilute with tap water to a final volume of approximately 7 oz. (210 mL) and place in the reservoir; start the proportioner delivery at 1 oz./gal and run until entirely consumed.

To vaccinate 460 pigs averaging 20 lbs./hd, follow across the row for 20 lb. pigs; 500 pigs will consume approximately 30 gallons drinking water over a 4 hour period, requiring 30 oz. of final stock solution; rehydrate one 500 dose vial of Argus® SC/ST with a measured 50 mL of tap water; withdraw 46 mL of rehydrated vaccine (460 doses) and dilute with tap water to a final volume of approximately 28 oz. (840 mL); place the 840mL of diluted vaccine in the reservoir; start the proportioner delivery at 1 oz./gal. and run until entirely consumed.

**CALCULATIONS:**

(90 pigs:  $90 \text{ hd} \div 100 \text{ ds} \times 7.5 \text{ oz.} = 6.75 \text{ oz.} \times 30 \text{ mL/oz.} = 202.5 \text{ mL final volume}$ )

(100 pigs:  $100 \text{ hd} \div 100 \text{ ds} \times 7.5 \text{ oz.} = 7.5 \text{ oz.} \times 30 \text{ mL/oz.} = 225 \text{ mL final volume}$ )

(Universal:  $\text{no. hd} \div 100 \text{ ds} \times \text{no. oz. per 100 hd} = \text{no. oz.} \times 30 \text{ mL/oz.} = \text{no. mL final volume}$ )

(460 pigs:  $460 \text{ hd} \div 500 \text{ ds} \times 30 \text{ oz.} = 27.6 \text{ oz.} \times 30 \text{ mL/oz.} = 828 \text{ mL final volume}$ )

(500 pigs:  $500 \text{ hd} \div 500 \text{ ds} \times 30 \text{ oz.} = 30.0 \text{ oz.} \times 30 \text{ mL/oz.} = 900 \text{ mL final volume}$ )

(Universal:  $\text{no. hd} \div 500 \text{ ds} \times \text{no. oz. per 500 hd} = \text{no. oz.} \times 30 \text{ mL/oz.} = \text{no. mL final volume}$ )

**PRECAUTIONS:** Do not vaccinate within 21 days before slaughter. Do not use antibiotics, sulfonamides or other medications in feed or water for 3 days before and 3 days after vaccination. If allergic reaction occurs, treat with epinephrine. Store at 2°C-7°C (35°F-45°F). Do not freeze. Use entire contents when first opened. Burn containers and all unused contents.

#### **FOR ANIMAL USE ONLY**

Intervet Inc., Merck Animal Health, division of Intervet Inc., Omaha, NE 68103, USA

U.S. Vet Lic. No 165A

1 800 521-5767

For patent information:

<http://www.merck.com/product/patent/home.html>

#### **Code**

100 dose vials

10-30 mL 065182 146658-03

1,000 doses

500 doses    50 mL    096017 148870-03

**CPN:** 1047472.3