

# Express™ 5-HS

## Respiratory MLV Vaccine with BVD Type 2

### Description

Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza<sub>3</sub>-Respiratory Syncytial Virus Vaccine, Modified Live Virus, Haemophilus Somnus Bacterin. Express™ 5-HS contains neomycin as a preservative.

### Features

Contains IBR-BVD Types 1 & 2, PI<sub>3</sub>-BRSV modified live virus.

IBR fraction stimulates serological and cell mediated immune (CMI) response.

Sub-Q administration: 2 mL dose.

### Benefits

Provides a proven efficacious immune response in healthy, susceptible cattle.

Provides extremely high serological titers and broad BVD coverage.

Provides BVD Type 1 & 2 protection.

Provides cattle with the capability to launch a serological and CMI response against an IBR challenge.

Meets BQA guidelines.

No milk withholding.

### Advantages

Express 5-HS administration allows cattle to launch a serological and CMI response against an IBR challenge and provides BVD protection with extremely high serological titers.

### Dosage & Administration

Using aseptic technique inject a 2 mL dose Sub-Q in front of the shoulder and midway of the neck away from the suprascapular lymph node. Repeat BRSV and *H somnus* fractions in 14 to 28 days. A 2 mL booster dose is recommended annually. Calves vaccinated before 6 months of age should be revaccinated at 6 months.

### Precautions

Store out of direct sunlight at 35° - 45° F (2° - 7° C). Avoid freezing.

Shake well before using. Use entire contents when first opened. Do not vaccinate within 21 days of slaughter.

Stressed cattle should not be vaccinated. Do not use in pregnant cows or in calves nursing pregnant cows. Burn containers and all unused contents. Injection site swelling may occur. Anaphylactoid reactions may occur.

Antidote: Epinephrine.

### Uses

Express 5-HS is recommended for vaccination of healthy, susceptible cattle as an aid in the reduction of disease caused by IBR, BVD Types 1 & 2, PI<sub>3</sub>, BRSV, *H somnus*.

### Warning

Animal inoculation only. Accidental injection to humans can cause serious local reactions. Contact a physician immediately if accidental injection occurs.

MLV BVD vaccine is contraindicated in persistently infected cattle and use should be limited only to healthy immunocompetent, unstressed, non-pregnant cattle.

### Product Information

Name	Code	Size
Express™ 5-HS	126-411	20 mL 10 doses
	126-431	100 mL 50 doses

### Highlights

- Protects against IBR-BVD Types 1 & 2-PI<sub>3</sub>-BRSV-*H somnus*.
- Provides broad coverage and extremely high serological titers for BVD.
- IBR fraction stimulates a CMI response.
- Use in cattle of all ages.
- Meets BQA guidelines.



Do not vaccinate within 21 days of slaughter. Stressed cattle should not be vaccinated. Do not use in pregnant cows or in calves nursing pregnant cows. Burn containers and all unused contents. Injection site swelling may occur. Anaphylactoid reactions may occur.

**Antidote:** Epinephrine.

**Preservative:** Neomycin.

**Warning:** Animal inoculation only. Accidental injection to humans can cause serious local reactions. Contact a physician immediately if accidental injection occurs.



**Bovine Rhinotracheitis-  
Virus Diarrhea-  
Parainfluenza<sub>3</sub>-  
Respiratory Syncytial Virus Vaccine**

Modified Live Virus

**Haemophilus Somnus Bacterin**

**Express™ 5-HS**

10 Doses/Rehydrate with 20 mL

This package contains one 10 dose vial of MLV vaccine and one 20 mL vial of liquid bacterin diluent.

**Note:** It is possible that healthy appearing cattle can be persistently infected with or incubating virulent BVD virus at time of vaccination. In view of these findings and suggested causes, BVD vaccine is contraindicated in persistently infected cattle and use should be limited only to healthy, immunocompetent, unstressed, non-pregnant cattle.

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U.S. Veterinary License No. 124**

Code 126-411; 26401-01



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**Indications:** Recommended for the vaccination of healthy, susceptible cattle as an aid in the reduction of diseases caused by Bovine Rhinotracheitis (IBR) virus, Bovine Virus Diarrhea (BVD) Types 1 and 2, Parainfluenza<sub>3</sub> (PI<sub>3</sub>) virus, Bovine Respiratory Syncytial virus (BRSV), and *Haemophilus somnus*.

**Composition:** The product in the amber glass vial contains IBR, BVD Types 1 and 2, PI<sub>3</sub>, and BRSV modified live viruses. The plastic vial contains *H. somnus* in a unique adjuvant system.

**Directions:** Rehydrate the modified live virus vaccine by aseptically adding the accompanying bottle of liquid bacterin.

**Dosage:** Using aseptic technique, inject 2 mL subcutaneously in front of the shoulder and midway of the neck, away from the suprascapular lymph node. If initial vaccination, repeat the BRSV and *H. somnus* fractions in 14 to 28 days. Calves vaccinated before 6 months of age should be revaccinated at 6 months. A 2 mL booster dose is recommended annually.

**Precautions:** Store out of direct sunlight at a temperature between 35–45°F (2–7°C). Avoid freezing. Shake well before using. Use entire contents when first opened.

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