



FOR ANIMAL TREATMENT ONLY

COOPERS' BOVILIS'
MH SINGLE-SHOT RTU
READY-TO-USE MH VACCINE FOR CATTLE

ACTIVE CONSTITUENTS
Inactivated *Mannheimia haemolytica*
Strain x387 (Leucotoxin producing) $\geq 1 \times 10^7$ orgs/mL
Strain x332 $\geq 1 \times 10^8$ orgs/mL

A ready-to-use, fast-acting, single-shot vaccine for the protection of cattle against Bovine Respiratory Disease (BRD) caused by *Mannheimia haemolytica* (MH). Significant immunological response achieved within **7 days** after a single dose vaccination and remains high for at least **180 days (25 weeks)**.



250 mL (125 Doses)



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WITHOLDING PERIODS: Zero (0) days.

TRADE ADVICE
EXPORT SLAUGHTER INTERVAL (ESI): Zero (0) days.

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

ADDITIONAL USER SAFETY INFORMATION
This product contains mineral oil and is an irritant. In the event of accidental self-administration, it can cause significant pain and swelling at the injection site, perhaps also involving the draining lymph nodes. Medical or surgical intervention may be required, especially if the site of injection involves a finger joint or tendon sheath. Contact a doctor as soon as possible, even if only a very small amount is injected, and take this package carton with you. Allow the wound to bleed freely and do not squeeze or interfere with the injection site to avoid spread of the vaccine.

Advice to the medical practitioner
This product contains mineral oil. Even if small amounts of this product have been accidentally self-administered, it can cause intense swelling and a persistent granulomatous inflammatory reaction. If injected into a finger joint or tendon sheath, the product may track along the tendon. The swelling and inflammation may compromise blood supply and result in necrosis that, in rare cases, may lead to the loss of a digit. Following appropriate immediate local cleansing, corticosteroids may be considered to decrease the severity of any local reaction. Ascertain the patient's tetanus immunisation status, and provide booster or primary series, as appropriate. In some cases of accidental self-injection, PROMPT surgical attention may be required. The wound should be rinsed and irrigated to remove the vaccine, especially where there is involvement of finger joint or tendon. Complete curettage or total excision of the lesion may be required for chronic granulomatous reactions. Meticulous technique is required to stop inadvertent spread of the product. **Additional information is listed in the safety data sheet.**

DISPOSAL
Dispose of empty container by wrapping with paper and putting in garbage.

STORAGE
Store between 2°C and 8°C (refrigerate, do not freeze). Protect from light. Keep out of reach of children.

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DIRECTIONS FOR USE

Precautions
Interactions: No information is available on the safety and efficacy from the concurrent use of the vaccine with any other.

This vaccine is safe for use in pregnant cattle during the second and third trimester of pregnancy. Safety in the first trimester of pregnancy has not been determined.

Side effects
Vaccination can cause a swelling at the site of injection and could last for up to 21 days. The onset of local reaction is generally less than 10 cm in diameter but will eventually resolve. A rise in internal body temperature may occur, returning to normal within 24-48 hours post-vaccination. This may result in some temporary loss of appetite.

Dosage and administration
Shake well to mix before use and keep mixed during use.
USE ALL PRODUCT WITHIN 42 DAYS OF OPENING.

Vaccination program: It is recommended that cattle are vaccinated with a single 2 mL injection subcutaneously on the side of the neck. Vaccination should be undertaken in advance of situations with a high potential of environmental challenge with *Mannheimia haemolytica* causing BRD to occur. These situations may involve the assembly, mixing or movement of cattle - for example, dairy calves, being reared in groups, dairy cattle calving and entering the milking herd, cattle moving between herds or regions and cattle destined for feedlots.

Significant immunological response achieved within 7 days with peak immunological response 14 days after a single dose vaccination and remains high for 180 days.

CAUTION - AVOID CARCASS DAMAGE

1. Sterilise all metal injection apparatus by boiling for at least 20 minutes before use. Plastic injection apparatus should be flushed with cooled boiled water prior to use. Avoid use of strong disinfectants on apparatus. Cool before use.
2. Maintain cleanliness of all times.
3. Keep needles sharp at all times. Replace frequently.
4. As far as possible avoid injection of animals during wet weather or under dusty conditions.
5. This product should be injected only under the skin.

Equipment: The vaccine bottle is designed so that it can be used with an automatic vaccination gun. To connect bottle to automatic vaccinator, attach the plain tube end of the draw-off assembly to the automatic vaccinator and the other end to the bottle. Suspend the bottle from the shoulder by means of the plastic cradle and the carrying strap. Lift air from the vaccinator and tubing until vaccine flows through the needle.

A partially used pack can be stored and used for up to 42 days after first opening if the following steps are taken:
1. Remove the delivery tube from the vaccine pack.
2. Use or dispose of any residual vaccine from the delivery tube and vaccinator.
3. Disinfect the stopper with a suitable antiseptic.
4. Place the vaccine bottle in the original box and store upright in the refrigerator. Do not freeze.

To reduce risk of contamination and leaking caused by multiple breaching of the stopper, it is recommended that the bottle should not be breached more than twice.

General directions

Onset of immunity: A significant immunological response is observed against *Mannheimia haemolytica* from 7 days after vaccination with one dose of Coopers Bovilis MH Single-Shot RTU. Peak immunological response occurs at 14 days, remaining high for 180 days (25 weeks).

Bovine Respiratory Disease (BRD) is a complex disorder of cattle causing mild to severe respiratory disease and even death. It is caused by a combination of infectious agents and stress factors (smoking, weaning, transport, sideways, mixing, weather extremes, dust, handling, culling and change of diet) acting on susceptible cattle in paddock, feedlot and dairy systems.

Mannheimia haemolytica is known to contribute to the development of BRD. Vaccination with Coopers Bovilis MH Single-Shot RTU has proven useful in the overall management of BRD.

Calves are often exposed to the *Mannheimia haemolytica* (MH) bacteria that cause severe BRD early in life. Calves that calve from cows vaccinated in late gestation will acquire passive immunity against bovine respiratory disease (BRD) caused by *Mannheimia haemolytica*.

Coopers Bovilis MH Single-Shot RTU can be administered as a two-dose vaccination program for ease to protect young calves and positive immunity. Cows should be vaccinated twice in the first trimester of pregnancy with an interval of 28 days between doses. The second dose should be administered at least 3 weeks prior to calving.

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Warranty
Intervet Australia Pty Limited (IAPL), trading as MSD Animal Health, warrants that this product is of merchantable quality and fit for its intended purpose. IAPL's liability for any loss, including consequential losses or injury caused by act or omission, including negligent acts or omissions, by IAPL or its agent, is limited to replacing or repairing the product at the option of IAPL. If possible, a sample of any product causing concern should be retained or delivered to IAPL within 30 days for a scientific examination.

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Batch AREA D

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DATE FIRST OPENED: _____

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