



Not all clostridial vaccines are created equal



Bovilis® C7 Somni
Powered by SPUR® adjuvant and protection
against *Histophilus somni*



Bovilis® C7 Somni



WHY BOVILIS® C7 SOMNI?



PROVEN EFFICACY AND SAFETY

Challenge studies in the host animal as well as serological studies have shown⁴

- Active immunity in the host and laboratory animals
- Confer protection against challenge in the host and laboratory animals
- Effective protection with the twice vaccination protocol
- Less injection site reactions due to the small 2 ml subcutaneous dose
- No increase in adverse reactions with a 10 x overdose



CONVENIENCE YOU CAN RELY ON

Bovilis® C7 Somni does not only confer clostridial protection to your herd but gives additional cover against *Histophilus somni*, one of the BRD causing bacteria in cattle. The *H. somni* component consists of a 50:50 % mixture of 2 strains of bovine origin. Powered by the SPUR® adjuvant with utilises the Antigen Purge System™ to help ensure a uniform solution that stays in suspension.

- 2 ml subcutaneous dose
- Initial 2 vaccinations 3 - 4 weeks apart, thereafter annually
- 0-day meat withdrawal
- Available in a 50 dose (100 ml) and 250 dose (500 ml) bottle



MSD
Animal Health

Bovilis® C7 Somni Reg. No. G3114 (Act 36/1947) Contains concentrated inactivated bacterins and toxoids of *C. chauvoei*, *C. septicum*, *C. novyi* type B, *C. sordellii*, *C. perfringens* types C and D and *Histophilus somni* in SPUR® as adjuvant to increase stimulation of the immune system.

Intervet South Africa (Pty) Ltd | Reg. No. 1991/006580/07
20 Spartan Road, Spartan, 1619, RSA | Private Bag X2026, Isando, 1600, RSA
Tel: +27 (0)11 923 9300 | Fax: +27 (0)11 392 3158 | Sales Fax: 086 603 1777
www.msd-animal-health.co.za
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References

1. Thompson, PH. Haemophilus somni disease complex in cattle. In *Infectious Diseases of Livestock*, Eds Coetzer, JAW and Tustin, RC. 2nd Ed. 2004
2. Henton, MM. 2021. Bovine Respiratory Disease, 2020 Analysis Report.
3. Henton, M. 2019. Bacterial Respiratory Pathogens in Feedlot Cattle 2018. Presentation MSD Animal Health Veterinary Function, 6 March 2019.
4. Dossier data on file, MSD Animal Health





DON'T LET WHAT COULD
HAPPEN, CHANGE WHAT
SHOULD HAPPEN

The threat of clostridial diseases to a herd requires support from a smooth, consistent vaccine. The 2 ml subcutaneous dose of Bovilis® C7 Somni, powered by SPUR® adjuvant, delivers trust for peace of mind.

Seemingly healthy cattle can be affected by any number of clostridial bacteria, and once affected, the chance of survival is low. Clostridial bacteria are often found in the intestinal tracts of infected cattle and the environment. Though infected cattle can't transmit the disease to other cattle, protecting the entire herd is critical. Once clostridial spores are in the soil, they can contaminate the area for generations.



DEFENSE IN EVERY DOSE

Bovilis® C7 Somni contains antigens to aid in the prevention against

- Black quarter (*Clostridium chauvoei*)
- Malignant oedema (*Clostridium septicum*)
- Black disease (*Clostridium novyi* type B)
- Sudden death syndrome (*Clostridium sordellii*)
- Enterotoxemia (*Clostridium perfringens* type C and *Clostridium perfringens* type D)
- *Histophilus somni*



WHAT IS *HISTOPHILUS SOMNI* ?

H. somni is a bacterium that plays an important role in the Bovine Respiratory Disease Complex (BRD). It belongs to the same family as the bacteria that causes pasteurellosis. *H. somni* is known to cause a variety of syndromes including septicaemia, thrombotic meningoencephalitis, pneumonia, myocarditis, arthritis, mastitis and reproductive disorders in both bulls and cows. Healthy cattle can maintain the organism in both the respiratory and reproductive tract.



The respiratory syndrome is more common in calves under 4 months of age but also occurs in feedlot cattle and adult cattle¹. Between 2002 and 2020, *H. somni* was isolated as the causal organism in 12 – 24 % of clinical pneumonia cases in feedlots in South Africa^{2,3}.



THE ADJUVANT ADVANTAGE

For Bovilis® C7 Somni, MSD Animal Health developed an innovative production technique that assures the highest level of purity from the processing of the antigens to the addition of the adjuvant. This process is called the Antigen Purge System™ (APS) and produces bacterin toxoids that significantly reduce injection site reactions.



THE FOUR-STAGE ANTIGEN PURGE SYSTEM

- 1 Creates superior grade of antigen in bulk fluid.
- 2 Antigen preparation reduces fluid volume with new filtration technology.
- 3 Assembles and standardises each component.
- 4 Lowers dose volume by using a specially formulated variation of the patented SPUR® adjuvant.



PROTECT WITH PRECISION

Every dose of Bovilis® C7 Somni includes SPUR® and boasts the highest level of immunisation with the lowest level of injection-site defects. The homogenous SPUR® solution doesn't separate like other conventional adjuvanted solutions. With SPUR®, the increased number of binding sites for the antigen ensures uniform suspension and smooth administration.

SPUR® keeps antigens stable over long periods of time to ensure your cattle are receiving the proper dose for immunisation.

Bovilis® C7 Somni