

COOPERS® **TASVAX® 8in1** CLOSTRIDIAL VACCINE FOR SHEEP AND CATTLE

PULPY KIDNEY (ENTEROTOXAEMIA) OVERVIEW

With the prime lamb market remaining buoyant, now is the time to make sure that every lamb counts. All signs are pointing to a good season for Australian farmers and it is during these good seasons that Pulpy Kidney can strike down otherwise healthy lambs.

Pulpy kidney is a disease that can cause sudden death in sheep, cattle and goats. It often occurs in animals otherwise considered to be in good condition and can be difficult to diagnose, with deaths sometimes incorrectly being attributed to “bloat”.

It is most often seen in lambs, but may occur in animals of any age if unvaccinated. It is estimated that between 5-10% of lambs are affected and is always fatal. The peak risk periods are during lush feed conditions and most susceptible are individual animals with high growth rates. The clinical signs of animals acutely affected include convulsions, frothing and sudden death.

With Prime Lambs returning on average \$115 per head, the cost of a full vaccination programme is relatively minor compared with the potential losses to your enterprise from an outbreak.

The introduction of **COOPERS TASVAX 8-IN-1** onto the Australian market represents the first major advance in Clostridial protection available for Australian sheep and cattle producers in many years:

- **Broad Protection** – utilising advanced ultrafiltration techniques, Tasvax 8-in-1 provides the broadest protection against potentially fatal Clostridial diseases of any vaccine available on the Australian market.
- **Long Duration of Protection** – Containing three *Clostridium perfringens* strains, Tasvax 8-in-1 provides broad protection against enterotoxaemia (including pulpy kidney in prime lambs and calves) for a full 12 months.

ADVANTAGES OF TASVAX 8-IN-1 OVER EXISTING AUSTRALIAN CLOSTRIDIAL VACCINES

When compared to other Australian Clostridial vaccines, Tasvax 8-in-1 provides the broadest coverage against Clostridial diseases caused by *Clostridium perfringens*. As with other *Clostridial* spp., it is the toxins that the various *Cl perfringens* elaborate that produce the disease. Tasvax 8-in-1 provides protection against diseases caused by *Cl perfringens* Type B, C and D:

- *Clostridium perfringens* Type D – elaborates epsilon toxin and causes sudden death in cattle and sheep due to enterotoxaemia (pulpy kidney)
- *Clostridium perfringens* Type B – elaborates alpha, beta and epsilon toxins and causes lamb dysentery, haemorrhagic enterotoxaemia and neo-natal calf diarrhoea
- *Clostridium perfringens* Type C – elaborates alpha and beta toxins, causing haemorrhagic enterotoxaemia

Tasvax 8-in-1 has a higher antigen load per dose than many of the other Australian Clostridial vaccines, delivering a higher concentration and a broader range of antigens to give the most complete coverage against Clostridial disease in Australia.

Lambs correctly vaccinated with Tasvax 8-in-1 will be protected against enterotoxaemia for 12 months. Lambs vaccinated with other Clostridial vaccines will only be protected for 3 months and after this time boosters are required.

FEATURES AND BENEFITS OF TASVAX 8-IN-1

Feature	Benefit
12 months protection	Longest available on the market against Pulpy Kidney
Use from 2 weeks of age	Offers flexibility and protects valuable young stock
The only Australian vaccine to contain 8 different <i>Clostridial antigens</i>	Broadest protection available against Clostridial diseases
The only Australian vaccine to contain <i>Cl perfringens</i> Type B and D toxoids	Broadest protection against deadly epsilon toxins (causes Pulpy Kidney deaths in prime lambs)
Optimum dose volume	<ul style="list-style-type: none"> Fewer animal doses of valuable product are lost during the whole of the vaccination process, as draw-off lines are filled and as vaccinators guns are primed There is also less opportunity to significantly under-dose an animal
Ultrafiltration technique	Consistent high quality vaccine

VACCINATION PROGRAMMES – SHEEP AND CATTLE

Animal	Sensitising Dose	1st Booster	2nd Booster	Annual
Lambs 2-8 weeks	2 mL	2 mL, 4-6 weeks later	2 mL, 6 months after sens dose	2 mL

Disease/Condition – Sheep	
Blackleg (<i>Clostridium chauvoei</i>)	✓
Pulpy Kidney (<i>Cl perfringens</i>)	✓
Tetanus (<i>Cl tetani</i>)	✓
Black Disease, Swelled Head in Rams (<i>Cl novyi</i> Type B)	✓
Malignant Oedema (<i>Cl septicum</i>)	✓
Lamb Dysentery (<i>Cl perfringens</i>)	✓
Haemorrhagic Enterotoxaemia (<i>Cl perfringens</i>)	✓
Redwater Disease (<i>Cl haemolyticum</i>)	✓
Dose Rate	2 mL/5 mL
Pack Size	250 mL and 500 mL
Vaccine Adjuvant	Aluminium hydroxide
Vaccine Preservative	Thiomersal