UPGRADE YOUR CLOSTRIDIAL DISEASE PROTECTION

10-IN-1 VACCINE. NO OTHER VACCINE OFFERS MORE COMPREHENSIVE CLOSTRIDIAL DISEASE PROTECTION
10-in-1 protection

With additional clostridial bacteria such as C. sordellii and C. perfringens type A identified on UK farms it makes sense to broaden disease cover.

Bravoxin 10 offers sheep and cattle producers unsurpassed clostridial disease protection.

<table>
<thead>
<tr>
<th>Clostridia bacteria</th>
<th>Disease protection</th>
<th>Bravoxin 10</th>
<th>8-in-1 vaccine (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. sordellii</td>
<td>Sudden death syndrome/abomasitis</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>C. perfringens type A</td>
<td>Malignant oedema</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>C. perfringens type B</td>
<td>Lamb dysentery</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. perfringens type C</td>
<td>Struck</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. perfringens type D</td>
<td>Pulpy kidney</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. chauvoei</td>
<td>Blackleg</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. septicum</td>
<td>Malignant oedema/braxy</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. haemolyticum</td>
<td>Bacterial redwater</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. novyi type B</td>
<td>Black disease</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>C. tetani</td>
<td>Tetanus</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Advanced technology

As well as being effective against a wide range of life-threatening clostridia bacteria, Bravoxin 10 also incorporates modern vaccine technology.

Ultrafiltration process concentrates the antigens to produce a long-lasting immune response in animals, without the need to use a high volume dose.
Simple vaccination schedule

*Bravoxin 10 offers a more convenient and straightforward vaccination protocol than an 8-in-1 vaccine.*

<table>
<thead>
<tr>
<th></th>
<th>Bravoxin 10</th>
<th>8-in-1 vaccine (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can be used in sheep and cattle</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Duration of immunity</td>
<td>12 months</td>
<td>12 months</td>
</tr>
<tr>
<td>Same dose rate for sheep and lambs (from 2 weeks of age)</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>Dosage rate - primary</td>
<td>Sheep 1ml + 1ml</td>
<td>Sheep 2-8 weeks of age: 2ml + 2ml</td>
</tr>
<tr>
<td></td>
<td>Cattle 2ml + 2ml</td>
<td>Sheep 8 weeks or older: 5ml + 2ml</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cattle 5ml + 5ml</td>
</tr>
<tr>
<td>Dosage rate - booster*</td>
<td>Sheep 1ml</td>
<td>Sheep 2ml</td>
</tr>
<tr>
<td></td>
<td>Cattle 2ml</td>
<td>Cattle 5ml</td>
</tr>
</tbody>
</table>

*To achieve protection against all 10 diseases a full primary course of 2 doses of Bravoxin 10 must be used.*

Lamb and calf from unvaccinated ewe/cow

1st Vaccination 2nd Vaccination Booster

Age: 2 weeks 6-8 weeks

Lamb and calf from vaccinated ewe/cow

1st Vaccination 2nd Vaccination Booster

Age: 8-12 weeks 12-16 weeks

Pregnant ewe/cow

Booster Lambing/calving

Age: 8-2 weeks
Bravoxin™ 10 is indicated for the active immunisation of sheep and cattle against disease associated with infections due to the below listed bacteria, and the passive immunisation of lambs and calves against infections due to the same (except *C. haemolyticum* in lambs).

**Active ingredients:** 1ml of Bravoxin 10 contains:
- ≥ 0.5 U *C. perfringens* type A toxoid,
- ≥ 18.2 IU *C. perfringens* type B and C toxoid,
- ≥ 53 IU *C. perfringens* type D toxoid,
- ≥ 90% protection *C. chauvoei* whole culture,
- ≥ 4.6 IU *C. septicum* toxoid,
- ≥ 17.4 U *C. haemolyticum* toxoid,
- ≥ 3.8 IU *C. novyi* type B toxoid,
- ≥ 4.4 U *C. sordellii* toxoid,
- ≥ 4.9 IU *C. tetani* toxoid.

**Special precautions:**
- In the event of an anaphylactic reaction appropriate treatment such as adrenaline should be administered without delay. Do not vaccinate sick or immunodeficient animals. In the case of accidental self-injection by the operator, encourage bleeding and wash the area immediately with water. If a local reaction develops, seek medical advice showing the package insert or the label to the physician.

**Adverse reactions:** 75-100% of animals vaccinated with Bravoxin 10 may experience reactions to vaccination. Most commonly reported adverse reactions are localised swelling or induration at the injection site but may also include mild hyperthermia, abscess or other reaction in the underlying tissues at the injection site. Swelling at the injection site occurs in the majority of animals. This may reach up to a mean value of 6cm in sheep and 15cm diameter in cattle; occasionally reactions of up to 25cm diameter may be seen in cattle. Most local reactions resolve within 3-6 weeks in sheep and in less than 10 weeks in cattle, but may persist longer in a minority of animals. An abscess may develop in some animals. Vaccination may give rise to reactions in the underlying tissues at the injection site. Skin discolouration at the injection site (which returns to normal as the local reaction resolves) may occur. Localised pain at the injection site for 1-2 days post first vaccination may occur. The local reactions do not affect the general health, demeanour, feeding or weight gain of the animals. **Withdrawal period:** zero days.

**Use medicines responsibly.**
For further information visit www.noah.co.uk/responsible

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**Bravoxin™ 10** is available from your animal health advisor or veterinary surgeon from whom advice should be sought.

**Legal category:** **POM-VPS**

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