

DESIGN BIOLOGIX PRODUCT MANUAL







Design Biologix is **proud to be a leader** in the field of animal **vaccine research, development and manufacture** in Africa.

Our passion is the prevention and control of animal diseases that are unique to Africa. Prevention of spread of some of these diseases to other continents has significantly broadened our market.

We believe the use of vaccines as a preventative method of disease management and herd protection is vastly preferable to the use of anti-microbials.

As is true for many situations, including animal health, prevention is better than crisis management. Timely use of vaccines provides the means for the prevention of a broad range of animal diseases.

OUR **VISION**

is to be one of the world's forward thinking leaders in animal health,

to **empower** veterinarians and farmer to **protect the animals** with the **best solutions** from snout to tail.



Clostrivax B

Reg. No. G4483 (Act 36/1947)

SCIENTIFICALLY PROVEN

Protection against the most deadly diseases in cattle. **Clostrivax B** is the **ONLY 9 antigen multi-clostridial formulation** that protects against **BOTULISM** in cattle and *Mannheimia haemolytica leukotoxin* that causes bovine respiratory disease.



Clostrivax B is an adjuvanted multi-component vaccine for the active immunisation of cattle against diseases caused by *Clostridium perfringens* type A (enterotoxaemia), *C. botulinum* types C and D (botulism), *C. novyi* type A (swollen head), *C. novyi* type B (black disease), *C. chauvoei* (black quarter), *C. sordellii* (sudden death syndrome), *C. septicum* (malignant oedema) and *Mannheimia haemolytica* type A1 (bovine respiratory disease).

STORAGE INSTRUCTIONS

Store in a refrigerator between 2 °C and 8 °C. Do not freeze. Protect from high temperatures and direct sunlight. Do not use after the expiry date printed on the packaging and container. Do not store any vials into which a needle or other device has been inserted, for future use.

COMPOSITION

Clostrivax B contains toxoids from *C. perfringens* type A, *C. botulinum* types C and D, *C. novyi* types A and B, *C. sordellii*, *C. septicum*, *M. haemolytica* type A1 leukotoxin and formalin-inactivated *C. chauvoei* anaerobes.

WARNINGS

- DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.
- Usually no marked reaction follows vaccination although a transient swelling may appear at the site of inoculation, and some animals may show a moderate rise of temperature for one or two days.
- Do not use in any other species other than those indicated.
- Do not administer to animals in poor or extremely poor body condition.
- KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- If failure of this product is suspected, seek veterinary advice and notify the registration holder and the Registrar.

PRECAUTIONS

- Follow standard sterile procedures during administration of injections.
- Do not mix this product with any other vaccines or medicines.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any other water sources with containers or waste.
- Dispose of all containers and all unused contents in accordance with the local law.

DIRECTIONS FOR USE

- Use only as directed.
- Shake gently before use by inverting the vial several times.
- Use sterile needles and syringes to administer **Clostrivax B**.
- Inject cattle subcutaneously on the side of the neck. DO NOT deviate from the recommended route and injection site location.
- Calves may be vaccinated from two months of age and older.
- **Clostrivax B** is safe to use in heifers and cows in all trimesters of pregnancy or calves nursed by pregnant cows.
- Cows that have been vaccinated during the previous 12 months should be revaccinated 2 to 6 weeks before calving is due to commence. This provides passive protection to the calf, via colostrum, for up to 8 weeks.

DOSAGE

- 2 ml via the subcutaneous route.
- A booster vaccination of 2 ml should be administered 3 to 4 weeks later. Annual revaccination is recommended thereafter.

PRESENTATION

Clostrivax B, a light brown to amber liquid with an off-white sediment if left to settle, is presented in a pack size of a 100 ml and 500 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold coloured aluminium cap with two bridge tabs, labelled and packed in a product-specific outer cardboard carton.

Clostrivax B is 'n multi-komponent entstof vir die aktiewe immunisering van beeste teen siektes wat veroorsaak word deur *Clostridium perfringens* tipe A (enterotoksemie), *C. botulinum* tipes C en D (lamsiekte), *C. novyi* tipe A (dikkop), *C. novyi* tipe B (aansteeklike nekrotiese hepatitis), *C. chauvoei* (sponssiekte), *C. sordellii* (skielike dood sindroom), *C. septicum* (kwaadaardige edeem) en *M. haemolytica* tipe A1 (bees respiratoriese siekte).

BERGINGSAAWYSINGS

Bêre in 'n yskas tussen 2 °C en 8 °C. Moenie vries nie. Beskerm teen hoë temperature en direkte sonlig. Moenie gebruik na die vervaldatum wat op die verpakking en houër gedruk is nie. Moenie houers waarin 'n naald of ander toestel aangebring is, vir toekomstige gebruik bêre nie.

SAMESTELLING

Clostrivax B bevat toksioëde van *C. perfringens* tipe A, *C. botulinum* tipes C en D, *C. novyi* tipes A en B, *C. sordellii*, *C. septicum*, *M. haemolytica* tipe A1 leukotoksie en formalien-geïnaktiveerde *C. chauvoei* anakultuur.

WAARSKUWINGS

- MOENIE DIERE BINNE 21 DAE NA INENTING VIR MENSLIKE VERBRUIK SLAG NIE.
- Normaalweg volg geen merkbare reaksie op inenting nie, alhoewel 'n kortstondige swelling op die plek van inenting kan voorkom, en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- Moenie in ander spesies anders as die aangeduide spesies gebruik nie.
- Moenie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.
- Indien dit vermoed word dat die produk oneffektief is, raadpleeg 'n veearts en verwittig die registrasiehouer en Registrateur.

VOORSORGMATREËLS

- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.
- Vermý kontak met die vel, oë en mond.
- Moenie eet, drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houers of afval besoedel nie.
- Gooi alle leë houers en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.

GEBRUIKSAANWYSINGS

- Gebruik slegs soos aangedui.
- Meng die houër goed voor en tydens gebruik deur dit 'n paar keer om te keer.
- Gebruik steriele naalde en spuite om **Clostrivax B** toe te dien.
- Spuit beeste onderhuids aan die kant van die nek. MOENIE van die aanbevole roete en inspuitlek afwyk nie.
- Kalwers kan ingeënt word vanaf 2 maande ouderdom en ouer.
- **Clostrivax B** is veilig vir die gebruik in verse en koeie in alle trimesters van dragtigheid, of kalwers wat drink aan dragtige koeie.

- Koeie wat binne die vorige 12 maande ingeënt was moet 2 tot 6 weke voor kalf weer ingeënt word. Dit bied die kalf tot 8 weke passiewe beskerming via die biesmelk.

DOSIS

- 2 ml via die onderhuidse roete.
- 'n Skraagdosie van 2 ml moet 3 tot 4 weke later toegedien word. Daar word daarna 'n jaarlikse her-inenting aanbeveel.

AANBIEDING

Clostrivax B, 'n ligbruin tot amber vloeistof met 'n wit sediment, word aangebied in 'n pakgrootte van 'n 100 ml en 500 ml hoëdigtheid-poliëteleen (HDPE) houër van natuurlike kleur, bedek met 'n goudkleurige aluminium doppie, geetiketteer en verpak in 'n produkspesifieke buitenste karton.

REGISTRASIEHOUER

Vetvax (Pty) Ltd, Reg. No. M2004/035302/07, 442 Rigel Avenue South, Erasmusrand, Pretoria, 0181, Tel: +27 (0) 12 349 2772

MANUFACTURER

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Clostrivax B+

Reg. No. G4484 (Act 36/1947)

SCIENTIFICALLY PROVEN

Extra protection against the most deadly diseases in cattle. **Clostrivax B+** is the **ONLY 10 antigen multi-clostridial formulation** that protects against **ANTHRAX & BOTULISM** in cattle and *Mannheimia haemolytica leukotoxin* that causes bovine respiratory disease.

Clostrivax B+ is an adjuvanted multi-component vaccine for the active immunisation of cattle against diseases caused by *Clostridium perfringens* type A (enterotoxaemia, gas gangrene, sudden death syndrome), *C. botulinum* types C and D (botulism), *C. novyi* type A (swelled head), *C. novyi* type B (black disease, infectious necrotic hepatitis), *C. chauvoei* (black leg, black quarter), *C. sordellii* (sudden death syndrome), *C. septicum* (malignant oedema, braxy), *Mannheimia haemolytica* type A1 (pneumonia) and *Bacillus anthracis* (anthrax).

Anthrax is a controlled disease in terms of the Animal Diseases Act (Act No. 35 of 1984) and any suspicion or confirmation of the disease must be reported to the responsible state veterinarian immediately.

STORAGE INSTRUCTIONS

Store in a refrigerator between 2 °C and 8 °C. Do not freeze. Protect from high temperatures and direct sunlight. Do not use after the expiry date printed on the packaging and container. Do not store any vials into which a needle or other device has been inserted, for future use.

COMPOSITION

Clostrivax B+ contains toxoids from *C. perfringens* type A, *C. botulinum* types C and D, *C. novyi* types A and B, *C. sordellii*, *C. septicum*, *M. haemolytica* type A1 leukotoxin, formalin inactivated *C. chauvoei* anaerocultures and live unencapsulated avirulent spores of *B. anthracis* Sterne 34F2.

WARNINGS

- **WITHDRAWAL PERIOD: DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.**
- Usually no marked reaction follows vaccination although a transient swelling may appear at the site of inoculation, and some animals may show a moderate rise of temperature for one or two days.
- **Simultaneous administration of antibiotics to vaccinated animals is contraindicated as the antibiotic will interfere with the vaccine.**
- **Antibiotics should not be given for several days before and after vaccination.**

- Do not use in any other species other than those indicated.
- Do not administer to animals in poor or extremely poor body condition.
- **KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
- Although this has been extensively tested under a large variety of conditions, failure thereof may ensue for a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder and the Registrar.

PRECAUTIONS

- Follow standard sterile procedures during administration of injections.
- Do not mix this product with any other vaccines or medicines.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any other water sources with containers or waste.
- Dispose all containers and all unused contents in accordance with the local law.

DIRECTIONS FOR USE

- Use only as directed.
- Shake gently before use by inverting the vial several times.
- Use sterile needles and syringes to administer **Clostrivax B+**.
- Inject cattle subcutaneously on the side of the neck. DO NOT deviate from the recommended route and injection site location.
- Calves may be vaccinated from two months of age and older.
- **Clostrivax B+** is safe to use in heifers and cows in all trimesters of pregnancy or calves nursed by pregnant cows.
- Previously sensitised cows should be vaccinated 2-6 weeks before calving is due to commence. This provides passive protection to the calf, via colostrum, for up to 8 weeks.

DOSAGE

- 2 ml via die subcutaneous route.
- A booster vaccination of 2 ml should be administered 3 to 4 weeks later with either **Clostrivax B+** or **Clostrivax B**. Annual revaccination is recommended thereafter.

PRESENTATION

Clostrivax B+, a light brown to amber liquid with an off-white sediment if left to settle, is presented in a pack size of a 100 ml and 500 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold coloured aluminium cap with two-bridge tabs, labelled and packed in a product-specific outer cardboard carton.

Clostrivax B+ is 'n multi-komponent entstof vir die aktiewe immunisering van beeste teen siektes wat veroorsaak word deur *Clostridium perfringens* tipe A (enterotoksemie, gasgangreen, skielike dood sindroom), *C. botulinum* tipes C en D (lamsiekte), *C. novyi* tipe A (dikkop), *C. novyi* tipe B (aansteeklike nekrotiese hepatitis), *C. chauvoei* (sponssiekte), *C. sordellii* (skielike dood sindroom), *C. septicum* (kwaadaardige edeem), *M. haemolytica* tipe A1 (bees respiratoriese siekte) en *Bacillus anthracis* (miltsekte).

Miltsekte is 'n beheerde siekte ingevolge die Wet op Dieresiektes (Wet No. 35 van 1984) en enige vermoede of bevestiging van die siekte moet onmiddellik by die verantwoordelike staatsveearts aangemeld word.

BERGINGSAAANWYSINGS

Bêre in 'n yskas tussen 2 °C en 8 °C. Moenie vries nie. Beskerm teen hoë temperature en direkte sonlig. Moenie gebruik na die vervaldatum wat op die verpakking en houër gedruk is nie. Moenie houers waarin 'n naald of ander toestel aangebring is, vir toekomstige gebruik bêre nie.

SAMESTELLING

Clostrivax B+ bevat toksioïede van *C. perfringens* tipe A, *C. botulinum* tipes C en D, *C. novyi* tipes A en B, *C. sordellii*, *C. septicum*, *M. haemolytica* tipe A1 leukotoksien formalien-geïnaktiveerde *C. chauvoei* anakultuur en lewendige ongekapsuleerde avirulente spore van *B. anthracis* Sterne 34F2.

WAARSKUWINGS

- MOENIE DIERE BINNE 21 DAE NA INENTING VIR MENSLIKE VERBRUIK SLAG NIE.
- Normaalweg volg geen merkbare reaksie op inenting nie, alhoewel 'n kortstondige swelling op die plek van inenting kan voorkom, en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- **Gelyktydige toediening van antibiotika aan ingeënte diere is teenaangedui aangesien die antibiotika met die entstof sal inmeng.**
- **Antibiotika moet nie vir 'n paar dae voor en na inenting gegee word nie.**
- Moenie in spesies anders as die aangeduide spesies gebruik nie.
- Moenie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- **HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.**

- Alhoewel hierdie produk breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.

VOORSORGMATREËLS

- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.
- Vermoed kontak met die vel, oë en mond.
- Moenie eet, drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houers of afval besoedel nie.
- Gooi alle leë houers en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.

GEBRUIKSAANWYSINGS

- Gebruik slegs soos aangedui.
- Meng die houër goed voor en tydens gebruik deur dit 'n paar keer om te keer.
- Gebruik steriele naalde en spuite om **Clostrivax B+** toe te dien.
- Spuit beeste onderhuids aan die kant van die nek. MOENIE van die aanbevole roete en inspuitlek afwyk nie.
- Kalwers kan ingeënt word vanaf 'n ouderdom van 2 maande en ouer.
- **Clostrivax B+** is veilig vir die gebruik in verse en koeie in alle trimesters van dragtigheid, of kalwers wat drink aan dragtige koeie.
- Koeie wat binne die vorige 12 maande ingeënt was moet 2 tot 6 weke voor kalf weer ingeënt word. Dit bied die kalf tot 8 weke passiewe beskerming via die biesmelk.

DOSIS

- 2 ml via die onderhuidse roete.
- 'n Skraagdosie van 2 ml moet 3 tot 4 weke later toegedien word met **Clostrivax B+** of **Clostrivax B**. Daar word daarna 'n jaarlikse her-inenting aanbeveel.

AANBIEDING

Clostrivax B+, 'n ligbruin tot amber vloeistof met 'n wit sediment, word aangebied in 'n pakgrootte van 'n 100 ml en 500 ml hoëdigtheid-poliëtileen (HOPE) houër van natuurlike kleur, bedek met 'n goudkleurige aluminium doppie, geetiketteer en verpak in 'n produksiespesifieke buitenste kartonhouer.

REGISTRATION HOLDER

Vetvax (Pty) Ltd, Reg. No. M2004/035302/07, 442 Rigel Avenue South, Erasmusrand, Pretoria, 0181, Tel: +27 (0) 12 349 2772

MANUFACTURER

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Clostrivax O

Reg. No. G4487 (Act 36/1947)

SCIENTIFICALLY PROVEN

Protection against the most deadly diseases in sheep. **Clostrivax O** is a **9 antigen multi-clostridial formulation** that protects against the veterinary important **clostridial diseases** and **pneumonia** in sheep.

Clostrivax O is an adjuvanted multi-component vaccine for the active immunisation of sheep against diseases caused by *Clostridium perfringens* type A (enterotoxaemia), *C. perfringens* type D (pulpy kidney), *C. tetani* (tetanus), *C. novyi* type A (swollen head), *C. novyi* type B (black disease), *C. chauvoei* (black quarter), *C. septicum* (malignant oedema), *Bibersteinia trehalosi* (pasteurellosis) and *Mannheimia haemolytica* type A1 (pasteurellosis).

STORAGE INSTRUCTIONS

Store in a refrigerator, between 2 °C and 8 °C. Protect from light. Do not freeze. Protect from high temperatures and direct sunlight. Do not use after the expiry date printed on the packaging and container. Do not store any vials into which a needle or other device has been inserted, for future use.

COMPOSITION

Clostrivax O contains toxoids from *C. perfringens* type A, *C. perfringens* type D, *C. tetani*, *C. novyi* types A and B, *C. septicum*, *M. haemolytica* type A1 leukotoxin and formalin inactivated *C. chauvoei* and *B. trehalosi* cultures.

WARNINGS

- **WITHDRAWAL PERIOD:** DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.
- Usually no marked reaction follows vaccination although a transient swelling may appear at the site of inoculation, and some animals may show a moderate rise of temperature for one or two days.
- Do not use in any species other than those indicated.
- Do not administer to animals in poor or extremely poor body condition.
- KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- Although this product has been extensively tested under a large variety of conditions, failure thereof may ensue for a wide range

of reasons. If this is suspected, seek veterinary advice and notify the registration holder and the Registrar.

- Do not over- or under-dose the vaccine.
- In case of accidental self-injection, seek medical advice immediately and show the package leaflet or the label to the physician.
- Do not inject intravenously.

PRECAUTIONS

- Follow standard sterile procedures during administration of injections.
- Do not mix this product with any other vaccines or medicines.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any other water sources with containers or waste.
- Dispose of all containers and all unused contents in accordance with the local law.
- Do not use disinfectants or antiseptics to sterilise any equipment.
- Wear protective clothing, masks, gloves, etc. according to hazard standards.
- Adhere to the vaccination programme to obtain optimum results.

Due to the adjuvant used, local reactions may occur in some animals at the injection site. They will disappear after a few days. If you notice any serious effects not mentioned in this leaflet, please inform your veterinarian.

DIRECTIONS FOR USE

- Use only as directed.
- Shake gently before use by inverting the vial several times.
- Use sterile needles and syringes to administer **Clostrivax O**.
- Inject sheep subcutaneously, on the side of the neck. DO NOT deviate from the recommended route and injection site location.
- Lambs may be vaccinated from two months of age and older.
- **Clostrivax O** is safe to use in ewes in all trimesters of pregnancy or lambs nursed by pregnant ewes.

- Ewes sensitised within the last 12 months should be vaccinated 2-6 weeks before lambing is due to commence. This provides passive protection to the lamb, via colostrum, for up to 8 weeks.

DOSAGE

- Inject 2 ml via the subcutaneous route, on the side of the neck.
- A booster vaccination of 2 ml should be administered 3 to 4 weeks later. Annual revaccination is recommended thereafter.

PRESENTATION

Clostrivax O, a light brown to amber liquid with an off-white sediment if left to settle, is presented in a pack size of a 100 ml and 500 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold coloured aluminium cap with two-bridge tabs, labelled and packed in a product-specific outer cardboard carton.

Clostrivax O is 'n adjuvant multi-komponent entstof vir die aktiewe immunisering van skape teen siektes wat veroorsaak word deur *Clostridium perfringens* tipe A (enterotoksemie, gasgangreen, skielike dood sindroom), *C. perfringens* tipe D (enterotoksemie, bloednier), *C. tetani* (klem-in-die-kaak), *C. novyi* tipe A (dikkop), *C. novyi* tipe B (aansteeklike nekrotiese hepatitis), *C. chauvoei* (sponssiekte), *Bibersteinia trehalosi* (pasteurellose, septisemie), *C. septicum* (kwaadaardige edeem), en *Mannheimia haemolytica* tipe A1 (respiratoriese siekte).

BERGINGSAAWYSINGS

Bêre in 'n yskas, tussen 2 °C en 8 °C. Beskerm teen lig. Moenie vries nie. Beskerm teen hoë temperature en direkte sonlig. Moenie gebruik na die vervaldatum wat op die verpakking en houer gedruk is nie. Moenie houers waarin 'n naald of ander toestel aangebring is, vir toekomstige gebruik bêre nie.

SAMESTELLING

Clostrivax O bevat toksioëde van *C. perfringens* tipes A en D, *C. tetani*, *C. novyi* tipes A en B, *C. septicum*, *M. haemolytica* tipe A1 leukotoksien en formalien-geïnkativeerde *C. chauvoei* en *B. trehalosi* anakulture.

WAARSKUWINGS

- **ONTTREKKINGSPERIODE: MOENIE DIERE BINNE 21 DAE NA INENTING VIR MENSLIKE GEBRUIK SLAG NIE.**
- Normaalweg volg geen merkbare reaksie op inenting nie, alhoewel 'n kortstondige swelling op die plek van inenting kan voorkom, en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- Moenie in spesies anders as die aangeduide spesies gebruik nie.
- Moenie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- HOU DIE PRODUK BUIITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.
- Alhoewel hierdie produk breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.
- Moenie die entstof onder- of oordoseer nie.
- In geval van toevallige self-inspuiting, verkry onmiddellik mediese advies en verskaf die inhoud van hierdie voulibjet of die etiket aan aan die geneesheer.

- Moenie via die intraveneuse roete toedien nie.

VOORSORGMATREËLS

- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.
- Vermoed kontak van die produk met die vel, oë en mond.
- Moenie eet, drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houers of afval besoedel nie.
- Gooi alle leë houers en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.
- Moenie ontsmettingsmiddels of antiseptika gebruik om enige toerusting te steriliseer nie.
- Dra beskermende klere, maskers en handskoene, ens. in lyn met die standaard vir gevaarlike middels.
- Volg die inentingsprogram om sodoende 'n bevredigende immuunrespons te verkry.

Lokale reaksies mag voorkom by die inspuittingsplek van sommige diere, as gevolg van die adjuvant (hulpmiddel) wat deel vorm van die entstof. Dit sal verdwyn na 'n paar dae. Indien u ernstige reaksies opmerk wat nie in hierdie voulibjet vermeld is nie, stel asseblief u veearts in kennis.

GEBRUIKSAANWYSINGS

- Gebruik slegs soos aangedui.
- Meng die houer versigtig voor gebruik, deur dit 'n paar maal om te keer.
- Gebruik steriele naalde en spuite om **Clostrivax O** toe te dien.
- Spuit skape onderhuid, aan die kant van die nek. MOENIE van die aanbevole roete en inspuittingsplek afwyk nie.
- Lammers kan ingeënt word vanaf 'n ouderdom van 2 maande en ouer.
- **Clostrivax O** is veilig vir gebruik in ooie tydens alle trimesters van dragtigheid, of by lammers wat drink aan dragtige ooie.
- Ooie wat binne die vorige 12 maande ingeënt was, moet 2 tot 6 weke voor lamtyd weer ingeënt word. Dit bied die lam tot 8 weke passiewe beskerming via die biesmelk.

DOSIS

- Spuit 2 ml via die onderhuidse roete, aan die kant van die nek.
- 'n Skraagdos is van 2 ml moet 3 tot 4 weke later toegedien word. Daarna word 'n jaarlikse her-inenting aanbeveel.

AANBIEDING

Clostrivax O, 'n ligbruin tot amberkleurige vloeistof met 'n wit sediment, word aangebied in 'n pakgrootte van 'n 100 ml en 500 ml hoëdigtheid-poliëteleen (HDPE) flessie van natuurlike kleur, bedek met 'n goudkleurige aluminium doppie, geetiketteer en verpak in 'n produkspesifieke buitenste kartonhouer.

REGISTRASIEHOUER

Vetvax (Pty) Ltd, Reg. No. M2004/035302/07, 442 Rigel Avenue South, Erasmusrand, Pretoria, 0181, Tel: +27 (0) 12 349 2772

MANUFACTURER

Design Biologix CC, Reg. No. 1992/028856/23
Tel: +27 (0) 12 349 2772, www.designbio.co.za



Ovipast

Reg. No. G4356 (Act 36 of 1947)

SCIENTIFICALLY PROVEN

Ovipast aids in the prevention of sheep and goat **Pneumonia (Pasteurellosis)**. **Ovipast** is an adjuvanted multi-valent vaccine, without antibiotics or preservatives

Ovipast is an adjuvanted multi-valent vaccine, without antibiotics or preservatives, formulated with *Mannheimia haemolytica* leukotoxin and lipopolysaccharide (LPS) supernatant antigens, as well as *Pasteurella multocida* type A bacterin. **Ovipast** aids in the prevention of sheep and goat pneumonia (Pasteurellosis).

DOSAGE FORM

Vaccine suspension for injection of a 1 ml dose via the subcutaneous route. A booster vaccination of 1 ml should be administered 3 to 4 weeks later. Annual revaccination is recommended thereafter.

STORAGE

Store in a refrigerator between 2 °C and 8 °C. Do not freeze. Protect from high temperatures and direct sunlight. Do not use after the expiry date printed on the packaging and container. Do not store any vials into which a needle or other device has been inserted, for future use.

WARNINGS

- **WITHDRAWAL PERIOD: DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.**
- While no marked reaction should follow vaccination, a transient swelling may appear at the site of injection, and some animals may show a moderate rise of temperature for one or two days.
- Do not use in animal species other than those indicated.
- Do not administer to animals in poor or extremely poor body condition.
- KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- Although this product has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice, and notify the registration holder and the Registrar.

PRECAUTIONS

- Observe aseptic precautions. Ensure that all vaccination equipment (needles, syringes etc.) is clean and sterile prior to use.

- Ensure that all equipment is kept clean and sterile during vaccination.
- Do not mix **Ovipast** with any other vaccine or medication.
- Use entire contents of vials when opened and do not store unused vaccine for future use.
- Do not use the contents of damaged vials.
- It is good vaccination practice when handling the vaccine to avoid contact with the eyes, mucous membranes, hands and clothing.
- Wash and disinfect hands with a disinfectant after vaccination.
- Use disposable vaccine equipment. Unused vaccine must be disposed of according to the National Environmental Waste Act, 2008 (Act 59 of 2008).

DIRECTIONS FOR USE

- Shake the bottle well before and during use with gentle end-over-end mixing.
- Inject sheep and goats subcutaneously on the side of the neck. DO NOT deviate from the recommended route and injection site location.
- Sheep and goats may be vaccinated from age of weaning and older.
- **Ovipast** can be administered to pregnant ewes to ensure passive antibody transfer to the lamb provided the lamb consumes sufficient quality colostrum within 1 day.
- It is essential to adhere to the vaccination programme to maintain a satisfactory immune response.
- Animals may therefore require a full vaccination program to be completed before the period of highest risk associated with respiratory pneumonia.

PRESENTATION

Ovipast a light-yellow liquid with an off-white sediment if left to settle, is presented in a pack size of a 100 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold-coloured aluminium cap, labelled and packed in a product-specific outer cardboard carton.

Ovipast is 'n multi-valente entstof met adjuvant, sonder antibiotika of preserveermiddels, geformuleer met *Mannheimia haemolytica* leukotoksien en lipopolisakkarie (LPS) bo-vloeistof antigene, asook die bakterien van *Pasteurella multocida* tipe A. **Ovipast** is 'n hulpmiddel in die voorkoming van skaap- en bok longontsteking (Pasteurellose).

ROETE VAN TOEDIENING

Entstof suspensie vir inspuiting met 'n 1 ml dosis via die onderhuidse roete. 'n Skraagdosis van 1 ml moet 3 tot 4 weke later toegedien word. Daar word daarna 'n jaarlikse her-inenting aanbeveel.

BERGINGSAAANWYSINGS

Bêre in 'n yskas tussen 2 °C en 8 °C. Moenie vries nie. Beskerm teen hoë temperature en direkte sonlig. Moenie gebruik na die vervaldatum wat op die verpakking en houer gedruk is nie. Moenie houers waarin 'n naald of ander toestel aangebring is, vir toekomstige gebruik bêre nie.

WAARSKUWINGS

- MOENIE DIERE BINNE 21 DAE NA INENTING VIR MENSLIKE VERBRUIK SLAG NIE.
- Normaalweg volg geen merkbare reaksie op inenting nie, alhoewel 'n kortstondige swelling op die plek van inenting kan voorkom, en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- Moenie in spesies anders as die aangeduide spesies gebruik nie.
- Moet nie toedien aan diere in 'n swak of uiters swak liggaamskondisie nie.
- HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.
- Alhoewel hierdie produk breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.

VOORSORGMATREËLS

- Let op aseptiese voorsorgmaatreëls. Maak seker dat alle inentingstoerusting (naalde, spuite, ens.) skoon en steriel is voor gebruik.
- Sorg dat alle toerusting tydens inenting skoon en steriel gehou word.
- Moet nie Ovipast met enige ander entstof of medikasie meng nie.
- Gebruik die hele inhoud van die houer wanneer dit oopgemaak word en moet nie ongebruikte entstof vir toekomstige gebruik bêre nie.
- Moenie die inhoud van 'n beskadigde houer gebruik nie.
- Dit is goeie inentingspraktyk om die entstof te hanteer om kontak met die oë, slymvliese, hande en klere te vermy.
- Was hande met 'n ontsmettingsmiddel na inenting.
- Gebruikte weggoobare toerusting, ongebruikte entstof, ens. moet weggedoen word volgens die Wet op Nasionale Omgewingsafval van 2008 (Wet 59 van 2008).

GEBRUIKSAANWYSINGS

- Meng die bottel goed voor en tydens gebruik deur ent-oor-ent te meng.
- Spuit skape en bokke onderhuidse aan die kant van die nek. MOENIE van die aanbevole roete en inspuitingsplek afwyk nie.
- Skape en bokke kan ingeënt word vanaf speenouderdom.
- Die entstof kan aan dragtige ooie toegedien word sodat passiewe teenliggame na die lam oorgedra word mits die lam binne 1 dag voldoende kwaliteit kolostrum inneem.
- Dit is noodsaaklik om die inentingsprogram te volg om 'n bevredigende immuunrespons te handhaaf.
- Dit word vereis dat die volledige inentingsprogram voltooi moet word voor die periode met die grootste risiko wat verband hou met respiratoriese longontsteking.

AANBIEDING

Ovipast, 'n liggeel vloeistof met wit sediment, word aangebied in 'n pakgrootte van 'n 100 ml hoëdigtheid-poliëteleen (HDPE) houer van natuurlike kleur, bedek met 'n goukleurige aluminium doppie, geëtiketteer en verpak in 'n produksiespesifieke buitenste karton.

REGISTRATION HOLDER AND MANUFACTURER

Design Biologix CC, Reg. No. CK 1992/028856/23
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MARKETED AND DISTRIBUTED BY

Ceva Animal Health (Pty) Ltd, Reg. No. 1973/016009/07
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www.ceva.co.za



Micromin B

Reg. No. G4382 (Act 36/1947)

SCIENTIFICALLY PROVEN

Raising quality through corrective supplementation. **Micromin B** is a superior **multi-mineral supplement formulation that supports and protects your herd's breeding life-cycle:** fertility, milk production, semen quality and optimum growth.

Micromin B is intended as an injectable multi-mineral supplement for cattle for prevention, maintenance or correction of diagnosed deficiencies of manganese, and/or copper, and/or chromium, and/or zinc and/or selenium which may arise during critical phases of the production or breeding life cycle.

STORAGE INSTRUCTIONS

Store in a cool dry place at or below 25 °C. Do not freeze. Protect from high temperatures and sunlight during administration. Do not use after the expiry date printed on the container. Do not store any vials into which a needle or other device has been inserted, for future use.

COMPOSITION

Chromium 5 mg/mL, Copper 7.5 mg/mL, Manganese 10 mg/mL, Zinc 40 mg/mL, Selenium 5 mg/mL

This product contains Copper & Chromium

WARNINGS

- **Micromin B** has a zero-day withdrawal period.
- Prolonged exposures to higher temperatures and sunlight may adversely affect efficacy.
- The product is safe for the user, the consumer of foodstuffs from treated animals and for the environment, when used as recommended.
- Do not use in species other than those indicated.
- Deficiencies in trace elements may only be diagnosed by professionals. Before using this product, consult a veterinarian.
- Selenium and copper toxicity may occur when an injectable product is used if selenium and copper levels are not established before use.
- Local reactions at the injection site are common. A slight local irritation may be noticed for approximately 30 seconds after injection. A slight swelling may be observed at the injection site for a few days after administration.

- Do not administer to animals in poor or extremely poor body condition.
- Do not use in animals with jaundice.
- **KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
- Although this remedy has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice, and notify the registration holder and the Registrar.

This product contains Copper and Chromium

PRECAUTIONS

- Consult a veterinarian before use.
- Follow standard sterile procedures during administration of injections.
- Wear protective clothing, masks, gloves, boots, etc. according to hazard standards.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any water sources with containers or waste.
- Dispose of all empty containers and all unused contents in accordance with the local law.
- Do not mix this product with any other vaccines or medicines.

DIRECTIONS FOR USE

- Use only as directed.
- Shake gently before use by inverting the vial several times.
- Use the entire contents of a vial once opened.
- Use sterile syringes and needles to administer **Micromin B**.
- Inject cattle subcutaneously on the side of the neck. **DO NOT** deviate from the recommended route and injection site location.

DOSAGE

- Calves (25 to 250 kg): 1 ml per 50 kg body weight, subcutaneous.
- Cattle (> 250 kg): 1 ml per 100 kg body weight, subcutaneous.

PRESENTATION

Micromin B, a dark blue solution, is presented in a pack size of a 500 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold-coloured aluminium cap.

Micromin B word as 'n multi-minerale aanvulling vir beeste ingespuut as 'n voorkomende, onderhouds- of korrektiewe dosis vir gediagnoseerde tekorte aan mangaan, en/of koper, en/of chroom, en/of sink en/of selenium wat tydens kritieke fases van die produksie of lewensiklus mag ontstaan.

BERGINGSAAWYSINGS

Bere op 'n koel, droe plek onder 25 °C. Moenie vries nie. Beskerm teen hoe temperature en sonlig tydens toediening. Moenie gebruik na die vervaldatum wat op die houer gedruk is nie. Moet nie die inhoud van 'n houer wat reeds gebruik is, berg vir toekomstige gebruik nie.

SAMESTELLING

Chroom 5 mg/ml, Koper 7,5 mg/ml, Mangaan 10 mg/ml, Sink 40 mg/ml, Selenium 5 mg/ml

WAARSKIWINGS

- **Micromin B** het geen onttrekkingsperiode nie.
- Langdurige blootstelling aan hoë temperature en sonlig kan die effektiwiteit van die produk benadeel.
- Die produk is veilig vir die gebruiker, die verbruiker van voedsel van behandelde diere en vir die omgewing, wanneer dit gebruik word soos aanbeveel.
- Moenie in ander spesies anders as die aangeduide spesies gebruik nie.
- Tekortkominge in spoorelemente kan slegs deur professionele persone gediagnoseer word. Raadpleeg 'n veearts voordat u hierdie produk gebruik.
- Selenium- en kopertoksisiteit kan voorkom wanneer 'n inspuittbare produk gebruik word indien selenium- en kopervlakke nie voor gebruik vasgestel is nie.
- Plaaslike reaksies op die inspuittingsplek is normaal. 'n Ligte plaaslike irritasie kan vir ongeveer 30 sekondes na toediening opgemerk word. 'n Ligte swelling kan vir 'n paar dae na toediening op die inspuittingsplek waargeneem word.
- Moet nie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- Moet nie in diere met geelsug gebruik word nie.
- HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.
- Alhoewel hierdie middel breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.

VOORSORGMATREËLS

- Raadpleeg 'n veearts voor gebruik.
- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Ora beskermende klere, maskers, handskoene, stewels, ens. volgens die risikostandaarde.
- Vermoed kontak met die vel, oë en mond.
- Moet nie eet, drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houers of afval besoedel nie.
- Gooi alle leë houers en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.

GEBRUIKSAANWYSINGS

- Gebruik slegs soos aangedui.
- Skud versigtig voor gebruik deur die houer 'n paar keer om te keer.
- Gebruik die totale inhoud van 'n houer sodra dit oopgemaak is.
- Gebruik steriele spuite en naalde om **Micromin B** toe te dien.
- Spuit beeste onderhuids aan die kant van die nek. MOENIE van die aanbevole roete en plek van die inspuittingsplek afwyk nie.
- Kalwers (25 tot 250 kg): 1 ml per 50 kg liggaamsmassa, onderhuids.
- Beeste (> 250 kg): 1 ml per 100 kg liggaamsmassa, onderhuids.

AANBIEDING

Micromin B, 'n donkerblou oplossing, word aangebied in 'n verpakkingsgrootte van 'n 500 ml hoëdigtheidspoliëteleen (HDPE) houer van natuurlike kleur, bedek met 'n goudkleurige aluminiumdoppie.

REGISTRATION HOLDER AND MANUFACTURER

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Micromin O

Reg. No. G4384 (Act 36/1947)

SCIENTIFICALLY PROVEN

Raising quality through corrective supplementation. **Micromin O** is a superior **multi-mineral supplement formulation** that **supports and protects** your herd's **breeding life-cycle**: fertility, milk production, semen quality and optimum growth.



Micromin O is intended as an injectable multi-mineral supplement for cattle and sheep for prevention, maintenance or correction of diagnosed deficiencies of manganese, and/or zinc and/or selenium which may arise during critical phases of the production or breeding life cycle.

STORAGE INSTRUCTIONS

Store in a cool dry place at or below 25 °C. Do not freeze. Protect from high temperatures and sunlight during administration. Do not use after the expiry date printed on the container. Do not store any vials into which a needle or other device has been inserted, for future use.

COMPOSITION

Manganese 10 mg/ml, Zinc 40 mg/ml, Selenium 3 mg/ml

WARNINGS

- **Micromin O** has a zero-day withdrawal period.
- Prolonged exposures to higher temperatures and sunlight may adversely affect efficacy.
- The product is safe for the user, the consumer of foodstuffs from treated animals and for the environment, when used as recommended.
- Do not use in species other than those indicated.
- Deficiencies in trace elements may only be diagnosed by professionals. Before using this product, consult a veterinarian.
- Selenium toxicity may occur when an injectable product is used if selenium levels are not established before use.
- Local reactions at the injection site are common. A slight local irritation may be noticed for approximately 30 seconds after injection. A slight swelling may be observed at the injection site for a few days after administration.
- Do not administer to animals in poor or extremely poor body condition.
- Do not use in animals with jaundice.
- **KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
- Although this remedy has been extensively tested under a large

variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice, and notify the registration holder and the Registrar.

PRECAUTIONS

- Consult a veterinarian before use.
- Follow standard sterile procedures during administration of injections.
- Wear protective clothing, masks, gloves, boots, etc. according to hazard standards.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any water sources with containers or waste.
- Dispose of all containers and all unused contents in accordance with the local law.
- Do not mix this product with any other vaccines or medicines.

DIRECTIONS FOR USE

- Use only as directed.
- Shake gently before use by inverting the vial several times.
- Use the entire contents of a vial once opened.
- Use sterile syringes and needles to administer **Micromin O**.
- Inject cattle subcutaneously on the side of the neck. **DO NOT** deviate from the recommended route and injection site location.

DOSAGE

- Sheep: 1 ml per 50 kg body weight, subcutaneous.
- Calves (25 to 250 kg): 1 ml per 50 kg body weight, subcutaneous.
- Cattle (> 250 kg): 1 ml per 100 kg body weight, subcutaneous.

PRESENTATION

Micromin O, a clear solution, is presented in a pack size of a 100 ml and a 500 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold-coloured aluminium cap.

Micromin O word as 'n multi-minerale aanvulling vir beeste en skape ingesluit as 'n voorkomende, onderhouds- of korrektiewe dosis vir gediagnoseerde tekorte aan mangaan, en/of sink en/of selenium wat tydens kritieke fases van die produksie- of lewensiklus mag ontstaan.

BERIGSAANWYSINGS

Bêre op 'n koel, droë plek onder 25 °C. Moenie vries nie. Beskerm teen hoe temperature en sonlig tydens toediening. Moenie gebruik na die vervaldatum wat op die houër gedruk is nie. Moet nie die inhoud van 'n houër wat alreeds gebruik is, berg vir toekomstige gebruik nie.

SAMESTELLING

Mangaan 10 mg/mℓ, Sink 40 mg/mℓ, Selenium 3 mg/mℓ

WAARSKUWINGS

- **Micromin O** het geen onttrekkingsperiode nie.
- Langdurige blootstelling aan hoë temperature en sonlig kan die effektiwiteit van die produk benadeel.
- Die produk is veilig vir die gebruiker, die verbruiker van voedsel van behandelde diere en vir die omgewing, wanneer dit gebruik word soos aanbeveel.
- Moenie in ander spesies anders as die aangeduide spesies gebruik nie.
- Tekortkominge in spoorelemente kan slegs deur professionele persone gediagnoseer word. Raadpleeg 'n veearts voordat u hierdie produk gebruik.
- Seleniumtoksisiteit kan voorkom wanneer 'n inspuibare produk gebruik word indien seleniumvlakke nie voor gebruik vasgestel is nie.
- Plaaslike reaksies op die inspuitsplek is normaal. 'n Ligte plaaslike irritasie kan vir ongeveer 30 sekondes na toediening opgemerk word. 'n Ligte swelling kan vir 'n paar dae na toediening op die inspuitsplek waargeneem word.
- Moet nie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- Moet nie in diere met geelsug gebruik word nie.
- **HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.**
- Alhoewel hierdie middel breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.

VOORSORGMATREËLS

- Raadpleeg 'n veearts voor gebruik.
- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Dra beskermende klere, maskers, handskoene, stewels, ens. volgens die risikostandaarde.
- Vermoed kontak met die vel, oë en mond.
- Moet nie eet drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houers of afval besoedel nie.
- Gooi alle leë houers en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.

GEBRUIKSAANWYSINGS

- Gebruik slegs soos aangedui.
- Skud versigtig voor gebruik deur die houër 'n paar keer om te keer.
- Gebruik die totale inhoud van 'n houër sodra dit opgemaak is.
- Gebruik steriele spuite en naalde om **Micromin O** toe te dien.
- Spuit beeste en skape onderhuids aan die kant van die nek. MOENIE van die aanbevole roete en plek van die inspuitsplek afwyk nie.

DOSIS

- Skape: 1 mℓ per 50 kg liggaamsmassa, onderhuids.
- Kalwers (25 tot 250 kg): 1 mℓ per 50 kg liggaamsmassa, onderhuids.
- Beeste (> 250 kg): 1 mℓ per 100 kg liggaamsmassa, onderhuids.

AANBIEDING

Micromin O, 'n helder oplossing, word aangebied in verpakkingsgroottes van 'n 100 mℓ of 500 mℓ. Beide verpakkingsgroottes kom in hoëdigtheidspoliëteleen (HDPE) houers van natuurlike kleur, bedek met goudekleurige aluminiumdoppies.

REGISTRATION HOLDER AND MANUFACTURER

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Micromin O⁺

Reg. No. G4383 (Act 36/194 7)

SCIENTIFICALLY PROVEN

Raising quality through corrective supplementation. **Micromin O⁺** is a superior **multi-mineral supplement formulation that supports and protects your herd's breeding life-cycle:** fertility, milk production, semen quality and optimum growth.



Micromin O⁺ is intended as an injectable multi-mineral supplement for cattle and sheep for prevention, maintenance or correction of diagnosed deficiencies of manganese, and/or copper, and/or zinc and/or selenium which may arise during critical phases of the production or breeding life cycle.

STORAGE INSTRUCTIONS

Store in a cool dry place at or below 25 °C. Do not freeze. Protect from high temperatures and sunlight during administration. Do not use after the expiry date printed on the container. Do not store any vials into which a needle or other device has been inserted, for future use.

COMPOSITION

Copper 5 mg/ml, Manganese 10 mg/ml, Zinc 40 mg/ml, Selenium 3 mg/ml

This product contains Copper

WARNINGS

- **Micromin O⁺** has a zero-day withdrawal period.
- Prolonged exposures to higher temperatures and sunlight may adversely affect efficacy.
- The product is safe for the user, the consumer of foodstuffs from treated animals and for the environment, when used as recommended.
- Do not use in species other than those indicated.
- Deficiencies in trace elements may only be diagnosed by professionals. Before using this product, consult a veterinarian.
- Selenium and copper toxicity may occur when an injectable product is used if selenium and copper levels are not established before use.
- Local reactions at the injection site are common. A slight local irritation may be noticed for approximately 30 seconds after injection. A slight swelling may be observed at the injection site for a few days after administration.

- Do not administer to animals in poor or extremely poor body condition.
- Do not use in animals with jaundice.
- **KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
- Although this remedy has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice, and notify the registration holder and the Registrar.

PRECAUTIONS

- Consult a veterinarian before use.
- Follow standard sterile procedures during administration of injections.
- Wear protective clothing, masks, gloves, boots, etc. according to hazard standards.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any water sources with containers or waste.
- Dispose of all empty containers and all unused contents in accordance with the local law.
- Do not mix this product with any other vaccines or medicines.

DIRECTIONS FOR USE

- Use only as directed.
- Shake gently before use by inverting the vial several times.
- Use the entire contents of a vial once opened.
- Use sterile syringes and needles to administer **Micromin O⁺**.
- Inject cattle and sheep subcutaneously on the side of the neck. **DO NOT** deviate from the recommended route and injection site location.

DOSAGE

- Sheep: 1 ml per 50 kg body weight, subcutaneous.
- Calves (25 to 250 kg): 1 ml per 50 kg body weight, subcutaneous.
- Cattle (> 250 kg): 1 ml per 100 kg body weight, subcutaneous.

PRESENTATION

Micromin O+, a light blue solution, is presented in a pack size of a 100 ml and a 500 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold coloured-aluminium cap.

Micromin O+ word as 'n multi-minerale aanvulling vir beeste en skape ingespuut as 'n voorkomende, onderhouds- of korrektiewe dosis vir gediagnoseerde tekorte aan mangaan, en/of koper, en/of sink en/of selenium wat tydens kritieke fases van die produksie- of lewensiklus mag ontstaan.

BERGINGSAAANWYSINGS

Bêre op 'n koel, droe plek onder 25 °C. Moenie vries nie. Beskerm teen hoë temperature en sonlig tydens toediening. Moenie gebruik na die vervaldatum wat op die houer gedruk is nie. Moet nie die inhoud van 'n houer wat reeds gebruik is, berg vir toekomstige gebruik nie.

SAMESTELLING

Koper 5 mg/ml, Mangaan 10 mg/ml, Sink 40 mg/ml, Selenium 3 mg/ml

WAARSKUWINGS

- **Micromin O+** het geen otrekkingsperiode nie.
- Langdurige blootstelling aan hoë temperature en sonlig kan die effektiwiteit van die produk benadeel.
- Die produk is veilig vir die gebruiker, die verbruiker van voedsel van behandelde diere en vir die omgewing, wanneer dit gebruik word soos aanbeveel.
- Moenie in ander spesies anders as die aangeduide spesies gebruik nie.
- Tekortkominge in spoorelemente kan slegs deur professionele persone gediagnoseer word. Raadpleeg 'n veearts voordat u hierdie produk gebruik.
- Selenium- en kopertoksiteit kan voorkom wanneer 'n inspuutbare produk gebruik word indien selenium- en kopervlakke nie voor gebruik vasgestel is nie.
- Plaaslike reaksies op die inspuittingsplek is normaal. 'n Ligte plaaslike irritasie kan vir ongeveer 30 sekondes na toediening opgemerk word. 'n Ligte swelling kan vir 'n paar dae na toediening op die inspuittingsplek waargeneem word.
- Moet nie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- Moet nie in diere met geelsg gebruik word nie.
- **HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.**
- Alhoewel hierdie middel breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.

VOORSORGMATREËLS

- Raadpleeg 'n veearts voor gebruik.
- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Dra beskermende klere, maskers, handskoene, stowels, ens. volgens die risikostandaarde.
- Vermyn kontak met die vel, oë en mond.

- Moet nie eet, drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houters of afval besoedel nie.
- Gooi alle lee houters en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.

GEBRUIKSAANWYSINGS

- Gebruik slegs soos aangedui.
- Skud versigtig voor gebruik deur die houer 'n paar keer om te keer.
- Gebruik die totale inhoud van 'n houer sodra dit opgemaak is.
- Gebruik steriele spuite en naalde om **Micromin O+** toe te dien.
- Spuit beeste en skape onderhuids aan die kant van die nek.
MOENIE van die aanbevole roete en inspuittingsplek afwyk nie.

DOSIS

- Skape: 1 ml per 50 kg liggaamsmassa, onderhuids.
- Kalwers (25 tot 250 kg): 1 ml per 50 kg liggaamsmassa, onderhuids.
- Beeste (> 250 kg): 1 ml per 100 kg liggaamsmassa, onderhuids.

AANBIEDING

Micromin O+, 'n ligblou oplossing, word aangebied in verpakkingsgroottes van 'n 100 ml of 500 ml. Beide verpakkingsgroottes kom in hoëdigtheidspoliëteleen (HDPE) houters van natuurlike kleur, bedek met goudekleurige aluminiumdoppies.

REGISTRATION HOLDER AND MANUFACTURER

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Multisomni

Reg. No. G4357 (Act 36/1947)

SCIENTIFICALLY PROVEN

Reduction in risk of Bovine Respiratory Disease in cattle. **Multisomni** is a superior **adjuvanted multi-component** that actively **protects** that protects against **pneumonia** in cattle.

Multisomni is an adjuvanted multi-component vaccine for the active immunisation of healthy cattle against bovine pneumonia caused by *Pasteurella multocida* type A, *P. multocida* type D and *Histophilus somni*.

DOSE FORM

Vaccine suspension for injection with a 1 ml dose via the subcutaneous route. A booster vaccination of 1 ml should be administered 3 to 4 weeks later. Annual revaccination is recommended thereafter.

STORAGE INSTRUCTIONS

Store in a refrigerator between 2 and 8 °C. Do not freeze. Protect from high temperatures and direct sunlight. Do not use after the expiry date printed on the packaging and container. Do not store any vials into which a needle or other device has been inserted, for future use.

WARNINGS

- **WITHDRAWAL PERIOD:** DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.
- Usually no marked reaction follows vaccination although a transient swelling may appear at the site of inoculation, and some animals may show a moderate rise of temperature for one or two days.
- Do not use in animal species other than those indicated.
- Do not administer to animals in poor or extremely poor body condition.
- KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- Although this remedy has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice, and notify the registration holder and the Registrar.

PRECAUTIONS

- Follow standard sterile procedures during administration of injections.
- Wear protective clothing, masks, gloves, boots, etc. according to hazard standards.
- Avoid contact of the product with skin, eyes and mouth.

- Do not eat, drink or smoke whilst handling the product.
- Do not contaminate rivers, dams or any water sources with containers or waste.
- Dispose of all empty containers and all unused contents in accordance with the local law.
- Do not mix this product with any other vaccines or medicines.

DIRECTIONS FOR USE

- Shake the bottle well before and during use with gentle end-over end mixing.
- Inject cattle subcutaneously on the side of the neck. DO NOT deviate from the recommended route and injection site location.
- Recommended dose for **Multisomni** is 1 ml via the subcutaneous route. A booster vaccination of 1 ml should be administered 3 to 4 weeks later. Annual revaccination is recommended thereafter.
- Animals may therefore require a full vaccination program to be completed before the period of highest risk associated with respiratory pneumonia.
- Cattle may be vaccinated from age of weaning and older.
- It is essential to adhere to the vaccination programme to maintain a satisfactory immune response.

PRESENTATION

Multisomni, a light-yellow liquid with an off-white sediment if left to settle, is presented in a pack size of a 20 ml and 100 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold coloured aluminium cap, labelled and packed in a product specific outer cardboard carton.

Multisomni is 'n multi-komponent entstof met adjuvant vir die aktiewe inenting van gesonde beeste teen respiratoriese longontsteking, veroorsaak deur *Pasteurella multocida* tipe A, *P. multocida* tipe D en *Histophilus somni*.

ROETE VAN TOEDIENING

Entstof suspensie vir inspuiting met 'n 1 ml dosis via die onderhuidse roete. 'n Skraagdosis van 1 ml moet 3 tot 4 weke later toegedien word. Daar word daarna 'n jaarlikse her-inenting aanbeveel.

BERGINGSAAWYSINGS

Bêre in 'n yskas tussen 2 °C en 8 °C. Moenie vries nie. Beskerm teen hoë temperature en direkte sonlig. Moenie gebruik na die vervaldatum wat op die verpakking en houer gedruk is nie. Moenie houers waarin 'n naald of ander toestel aangebring is, vir toekomstige gebruik bêre nie.

WAARSKUWINGS

- Moenie diere binne 21 dae na inenting vir menslike verbruik slag nie.
- Normaalweg volg geen merkbare reaksie op inenting nie, alhoewel 'n kortstondige swelling op die plek van inenting kan voorkom, en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- Moenie in ander spesies anders as die aangeduide spesies gebruik nie.
- Moet nie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- HOU DIE PRODUK BUIE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.
- Alhoewel hierdie middel breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer en die Registrateur.

VOORSORGMATREËLS

- Volg standaard steriele prosedures tydens toediening van inspuittings.
- Dra beskermende klere, maskers, handskoene, stewels, ens. volgens die risikostandaarde.
- Vermoed kontak met die vel, oë en mond.
- Moet nie eet, drink of rook tydens die hantering van die produk nie.
- Moenie riviere, damme of waterbronne met houers of afval besoedel nie.
- Gooi alle leë houers en alle ongebruikte inhoud volgens die plaaslike wetgewing weg.
- Moenie hierdie produk met enige ander entstof of medisyne meng nie.

GEBRUIKSAANWYSINGS

- Meng die houer goed voor en tydens gebruik.
- Spuit beeste onderhuids aan die kant van die nek. MOENIE van die aanbevole roete en inspuitlek afwyk nie.
- Die aanbevole dosis vir **Multisomni** is 1 ml via die onderhuidse roete. 'n Skraagdosis moet 3 tot 4 weke later toegedien word. Daar word daarna 'n jaarlikse her-inenting aanbeveel.
- Dit word dus vereis dat die volledige inentingsprogram voltooi moet word voor die periode met die grootste risiko wat verband hou met respiratoriese longontsteking.
- Beeste kan ingeent word vanaf speenouderdom en ouer.
- Dit is noodsaaklik om die inentingsprogram te volg om 'n bevredigende immuunrespons te handhaaf.

AANBIEDING

Multisomni, 'n liggeel vloeistof met 'n wit sediment, word aangebied in 'n pakgrootte van 'n 20 ml en 100 ml hoëdigtheid-poliëteleen (HDPE) houer van natuurlike kleur, bedek met 'n goudkleurige aluminium doppie, geetiketteer en verpak in 'n produksiespesifieke buitenste karton.

REGISTRATION HOLDER AND MANUFACTURER

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BEF-TECT (3-Day Stiffsickness)

Reg. No. G4365 (Act 36/1947)

SCIENTIFICALLY PROVEN

Strategic prevention of milk losses.

BEF-TECT for 3-Day Stiffsickness, the prophylactic immunisation of cattle against ephemeral fever/3-day stiffsickness disease.



BEF-TECT is a prophylactic vaccine for the active immunisation of cattle against Bovine ephemeral fever (BEF), also commonly known as three-day stiff-sickness. An infectious disease caused by an arthropod-borne rhabdovirus (Bovine ephemeral fever virus (BEFV) affecting cattle and water buffalo (*Bubalus bubalis*).

COMPOSITION

Each 2 ml dose of the vaccine contains 10^4 TCID₅₀ of freeze-dried live attenuated bovine ephemeral fever virus.

STORAGE INSTRUCTIONS

- Store in a refrigerator between 2 °C to 8 °C.
- Do not freeze.
- Protect from high temperatures and sunlight during vaccination.

WARNINGS

- **WITHDRAWAL PERIOD: DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION*.**
- Vaccinate healthy animals only.
- Usually no marked reactions follow vaccination although a transient swelling may appear at the site of inoculation, and some animals may show a moderate rise in temperature for one or two days.
- **KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
- Although this vaccine has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder, and the Registrar.

PRECAUTIONS

- Observe aseptic precautions. Ensure that all vaccination equipment (needles, syringes, etc.) is clean and sterile prior to use.
- Ensure that all equipment is kept clean and sterile during vaccination.
- Do not mix with any other vaccine or medication.
- Use entire contents of vials when opened and do not store opened, unused vaccine.
- Do not use the contents of damaged vials.

- It is good vaccination practice when handling the vaccine to avoid contact with the eyes, mucous membranes, hands and clothing.
- Wash and disinfect hands with a disinfectant after vaccination.
- Used disposable vaccine equipment, unused vaccine etc. must be disposed of according to the National Environmental Waste Act, 2008 (Act 59 of 2008).

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

Use a sterile syringe to transfer approximately 5 ml of sterile **BEF-TECT** diluent (adjuvant) into the 7 ml glass vial containing the freeze-dried BEF virus. Mix gently until all the powder is dissolved and then transfer the suspension back into the diluent vial. Mix gently using end-over-end mixing to distribute the virus evenly through the liquid.

DOSAGE

Inject 2 ml of the reconstituted vaccine subcutaneously in the side of the neck. A booster injection of 2 ml is required 3 to 4 weeks later.

DIRECTIONS FOR USE

- An annual revaccination with booster should be given to dairy cows, bulls and beef herds before the BEF outbreak season.
- **BEF-TECT** is safe for use in cows in all stages of pregnancy.
- Vaccination of lactating cows with **BEF-TECT** does not influence milk-production.
- Vaccination of bulls with **BEF-TECT** does not affect fertility.
- Animals may require a full vaccination program to be completed before the period of highest risk associated with bovine ephemeral fever.
- It is essential to adhere to the vaccination programme to maintain a satisfactory immune response.
- In-use stability: Use the vaccine within two hours of reconstitution.
- Do not use after the expiry date printed on the packaging and container. Discard any product remaining after the container was punctured.

PRESENTATION

Vials containing 20 ml (10 doses) or 100 ml (50 doses). Virus component: a light-yellow uniform freeze-dried cake is presented in a

7 mℓ glass vial stoppered with a rubber bung and capped with a gold coloured aluminium cap with two-bridge tabs, labelled and packed in a product-specific outer twin pack cardboard carton.

Diluent component: clear and colourless liquid is presented in a pack size of a 20 mℓ or 100 mℓ high density polyethylene (HDPE) vial of natural colour, capped with a gold coloured aluminium cap with two bridge tabs, labelled and packed in a product-specific outer twin pack cardboard carton.

** 21 days is a standard withdrawal period set according to South African legislation for all vaccine products. If required by national legislation another withdrawal period may also be licensed, e.g. 0 days.*

BEF-TECT is vir die profilaktiese inenting van beeste teen drie-dae-stywesiekte.

SAMESTELLING

Elke 2 mℓ dosis van die entstof bevat 10^4 TCID₅₀ gevriesdroogde, lewende, verswakte virus.

BERGINGSAAWYSINGS

- Berg in 'n yskas tussen 2 °C en 8 °C.
- Moenie vries nie.
- Vermoer blootstelling aan hoë omgewingstemperatuur en direkte sonlig gedurende inenting.

WAARSKUWINGS

- **ONTTREKKINGSPERIODE: MOENIE BEESTE BINNE 21 DAE NA INENTING VIR MENSLIKE VERBRUIK SLAG NIE*.**
- Slegs gesonde diere moet ingeënt word.
- Gewoonlik volg geen duidelike reaksies na enting alhoewel 'n kortstondige swelling mag voorkom op die plek van enting. Sommige diere mag 'n matige styging in temperatuur wys vir een of twee dae.
- **HOU BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.**
- Alhoewel hierdie entstof breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit faal as gevolg van verskeie redes Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer.

VOORSORGMATREËLS

- Neem aseptiese voorsorgmaatreëls in ag. Sorg dat alle toerusting (naalde, spuite, ens) skoon en steriel is voor inenting.
- Sorg dat alle toerusting skoon en steriel is gedurende inenting.
- Moet nie met ander entstof of medikasie meng nie.
- Gebruik die hele inhoud as die entstof eers opgemaak is. Gedeeltelik gebruikte houers moenie vir latere gebruik gebêre word nie.
- Beskadigde houers moenie gebruik word nie.
- Dit is goeie inentingsparaktyk tydens die hantering van die entstof om kontak met die oë, slymvliese, hande en kler te vermy.
- Was en ontsmet hande met 'n ontsmettingsmiddel na inenting.
- Vernietig gebruikte eenmalige entstof-toerusting, ongebruikte entstof, leë entstofhouers ens. volgens die Nasionale Wet op Omgewingsafval, 2008 (Wet 59 van 2008).

GEBRUIKSAANWYSINGS - GEBRUIK SLEGS SOOS AANGEDUI

Gebruik 'n steriele spuit om ongeveer 5 mℓ steriele **BEF-TECT** verdunningsmiddel (adjuvant) na die 7 mℓ glas bottel wat die gevriesdroogde virus bevat, oor te dra.

Meng deeglik maar sagkuns totdat die poeier opgelos is; spuit hierdie suspensie terug in die oorblywende steriele verdunningsmiddel. Meng liggies om die virus eweredig deur die vloeistof te versprei.

DOSIS

Spuut 2 mℓ van die opgeloste virus per dier onderhuids aan die kant van die nek. 'n Skraagdosie van 2 mℓ is nodig 3 tot 4 weke later.

GEBRUIKSAANWYSINGS

- 'n Jaarlikse herinenting met skraagdosie sal gegee moet word aan melkbeeste, bulle en vleisbeeste voor die drie-dae-stywesiekte uitbreekseisoen.
- **BEF-TECT** is veilig vir gebruik by koeie in alle stadiums van dragtigheid.
- Inenting van lakterende koeie met **BEF-TECT** beïnvloed nie melkproduksie nie.
- Inenting van bulle met **BEF-TECT** beïnvloed nie vrugbaarheid nie.
- 'n Volledige inentingsprogram mag vereis word in diere voor die hoogste risiko periodes wat gepaard gaan met drie-dae-stywesiekte.
- Dit is noodsaaklik om by die inentingsprogram te hou om 'n bevredigende immuunrespons te handhaaf.
- Stabiliteit tydens gebruik: Gebruik die entstof binne twee ure na rekonstitusie.
- Moenie gebruik na die vervaldatum wat op die verpakking en houër gedruk is nie.

AANBIEDING

Houers wat 20 mℓ (10 dosisse) of 100 mℓ (50 dosisse) bevat. Viruskomponent: 'n liggeel uniform gevriesdroogde koek word aangebied in 'n 7 mℓ glas houër met 'n rubber proppe en bedek met 'n goudkleurige aluminium doppie, gemerk en verpak in 'n produk-gespesifiseerde buitenste tweelingpak karton.

Verdunningsmiddel: helder en kleurlose vloeistof word in 'n pakgrootte aangebied van 20 mℓ of 100 mℓ hoëdigtheid-poliëteleen (HDPE) houers van natuurlike kleur, bedek met 'n goudkleurige aluminium doppie, gemerk en verpak in 'n produk-spesifieke buitenste tweelingpak karton.

** 21 dae is 'n standaard onttrekkingsperiode vasgestel volgens Suid-Afrikaanse wetgewing vir alle entstowwe. Indien voorgeskryf deur nasionale wetgewing, mag 'n ander onttrekkingsperiode ook gelisenseïerd wees, bv 0 dae.*

REGISTRATION HOLDER AND MANUFACTURER

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BRU-TECT S19

Reg. No. G4496 (Act 36/1947)

SCIENTIFICALLY PROVEN

Prevention of contagious abortion & milk contamination. **BRU-TECT S19 supports and protects your herd's breeding & milk production**, and prevents **contaminating milk, contagious abortion and sterility**.



Bru-Tect S19 is a lyophilised vaccine containing live attenuated *Brucella abortus* S19 for the prevention of bovine brucellosis (contagious abortion).

Brucellosis is a controlled disease in terms of the Animal Diseases Act (Act No. 35 of 1984) and any suspicion or confirmation of the disease must be reported to the responsible state veterinarian immediately.

As per Table 2 of the Animal Diseases Regulations (R. 2026 of 1986), all heifers between the ages of 4 and 8 months must be vaccinated against brucellosis, and, no bovine above the age of 8 months may be vaccinated against brucellosis without the written consent of the responsible state veterinarian.

STORAGE INSTRUCTIONS

Store and transport refrigerated between 2 °C to 8 °C. Protect from light. Do not freeze. Do not use this veterinary vaccine after the expiry date which is stated on the container label. **In-use shelf life: use immediately or within 2 hours of opening. Do not store partially used containers for future use.**

COMPOSITION PER DOSE (2 mℓ)

Bru-Tect S19 is a lyophilised vaccine containing live attenuated *Brucella abortus* S19. Each 2 mℓ (1 dose) of reconstituted vaccine contains 5×10^{10} cfu/dose - 1×10^{11} cfu/dose.

WARNINGS

- **WITHDRAWAL PERIOD: DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.**
- Vaccinate healthy animals only.
- Do NOT mix with any other vaccine or immunological product. No information is available on the compatibility of **Bru-Tect S19** with any other vaccine or medication.
- Potentially harmful to humans. Care should be taken to avoid direct contact and self-injection or eye or skin contamination. **If contact occurs, rinse affected area repeatedly with clean water.**
- Medical advice should be sought in the event of accidental exposure.
- Do not over- or under-dose the vaccine.

- Usually no marked reaction follows vaccination, although a transient swelling may appear at the site of inoculation and some animals may show a moderate rise of temperature for one or two days.
- Ensure that marketed animals do not have local reactions (swellings) at the site of vaccine administration, or elevated temperature reactions (fever) as this may result in the condemnation of the carcasses.
- Simultaneous administration of antibiotics to vaccinated animals is contraindicated as the antibiotic will interfere with the vaccine.
- Antibiotics should not be given for several days before and after vaccination.
- Use the entire contents of a vial once opened.
- Do not use in animal species other than those indicated.
- **DO NOT USE IN PREGNANT ANIMALS.**
- Do not administer to animals in poor or extremely poor body condition.
- Do not inject intravenously.
- **KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
- Although this product has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the Registration holder.

PRECAUTIONS

- Observe aseptic precautions. Ensure that all vaccination equipment (containers, syringes and needles) are clean and sterile prior to and during use. Use sterile equipment when administering the vaccine.
- **Syringes and needles that are used for BRU_TECT S19 administration, should not be used for any other purpose. If syringes and needles are re-used for S19 administration, they must be dedicated for this purpose only. Where chemical sterilisation of needles and syringes is practised, rinse needles and syringes in boiled (cooled down) water before re-use; to ensure that the attenuated live bacterial component of the next dose is not destroyed by the disinfectant.**
- Consult a veterinarian or state veterinarian before use.

- **A single inoculation of this vaccine will not produce absolute immunity in all animals. Therefore, complete reliance should not be placed on the vaccine alone to prevent and control brucellosis. It is important that a veterinarian be consulted regarding additional control measures.**
- Wear protective clothing, masks, gloves etc. according to hazard standards.
- Avoid contact of the product with skin, eyes and mouth.
- Do not eat, drink or smoke whilst handling the product.
- Adhere to the vaccination programme to obtain optimum results.
- Destroy any unused vaccine and dispose of all vaccine containers and disposable equipment after use, in accordance with the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008).
- Do not contaminate rivers, dams or any water sources with containers or waste.

Local reactions may occur in some animals at the injection site. They will disappear after a few days. If you notice any serious effects not mentioned in this leaflet, please inform your veterinarian.

DIRECTIONS FOR USE

- **Use only as directed.**
- **For 20 ml and 100 ml pack size:**

Draw up 2 ml to 3 ml of the **Bru-Tect S19** diluent component from the HDPE vial and inject into the 7 ml glass vial containing the live attenuated *B. abortus* S19 lyophilised cake. Mix gently to dissolve the powder, aspirate contents gently and **TRANSFER BACK** into the HDPE diluent vial. Mix gently to distribute the bacterial suspension evenly throughout the liquid. **Use the entire contents of the vial within 2 hours of reconstitution.**

DOSAGE

- Inject a single 2 ml subcutaneous injection on the side of the neck only, in heifers between the ages of 4 and 8 months. DO NOT deviate from the recommended route and injection site location. Do not repeat vaccination. **Please consult with your veterinarian.**

PRESENTATION

The 20 ml pack size (10 doses) and 100 ml pack size (50 doses) contains:

- **Lyophilised component:** an off-white freeze-dried cake is presented in a 7 ml glass vial, stoppered with a rubber bung and capped with a gold-coloured aluminium cap.
- **Diluent component:** a clear and colourless liquid diluent is presented in a 20 ml or 100 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold-coloured aluminium combination seal.

Both components are labelled and packed together in a product-specific outer cardboard carton.

Bru-Tect S19 is 'n gevriesdroogde entstof wat lewende, verswakte *Brucella abortus* S19 bevat, vir die voorkoming van brucellose in beeste (besmetlike misgeboorte).

Brucellose is 'n beheerde dieresiekte kragtens die Wet op Dieresiektes (Wet Nr. 35 van 1984). Enige vermoede of bevestigde gevalle van die siekte moet onmiddellik aan die verantwoordelike staatsveearts gerapporteer word.

In ooreenstemming met Tabel 2 van die Dieresiekteregulasies (R. 2026 van 1986), moet alle verse met 'n ouderdom van tussen 4 en 8 maande teen brucellose geënt word, en geen beeste oor as 8 maande mag teen brucellose geënt word sonder skriftelike toestemming van die verantwoordelike staatsveearts nie.

BERGINGSAAWYSINGS

Bêre in 'n yskas en verkoel tydens vervoer tussen 2 °C en 8 °C. Beskerm teen lig. Moenie vries nie. Moenie hierdie veeartsenykundige entstof gebruik na die vervaldatum wat op die verpakking aangedui is nie. **Rakleef tyd na eerste oopmaak van die flessie: gebruik onmiddellik of binne 2 ure na oopmaak. Moenie ongebruikte entstof bêre vir latere gebruik nie.**

SAMESTELLING PER DOSIS (2 ml)

Bru-Tect S19 is 'n gevriesdroogde entstof wat lewende, verswakte *Brucella abortus* S19 bevat. Elke 2 ml (1 dosis) hersaamgestelde entstof bevat 5×10^{10} cfu/dosis - 1×10^{11} cfu/dosis.

WAARSKUWINGS

- **ONTTREKINGSPERIODE:** MOENIE DIERE BINNE 21 DAE NA INENTING VIR MENS-LIKE GEBRUIK SLAG NIE.
- Slegs gesonde diere moet ingeënt word.
- MOENIE met enige ander entstof of immunologiese produk meng nie. Geen informasie is beskikbaar in verband met die verenigbaarheid van **Bru-Tect S19** met enige ander entstof of medisyne nie.
- Potensieel skadelik vir mense. Voorsorg moet getref word om direkte kontak met die produk, self-inspuiting, of kontaminasie van die oë of vel te voorkom. **Indien kontak plaasvind, spoel die geaffekteerde area herhaaldelik met skoon water af.**
- Verkry mediese advies in die geval van toevallige blootstelling aan die produk.
- Moenie die entstof oor- of onderdoser nie.
- Normaalweg volg geen merkbare reaksie na inenting nie, alhoewel kortstondige swelling op die plek van inenting kan voorkom en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- Versker dat diere wat bemark word geen lokale reaksies (swelling) by die entstof toedieningsplek of verhoogde liggaamstemperatuur (koorsreaksie) toon nie, aangesien dit kan lei tot afkeur van karkasse.
- Gelyklopende toediening van antibiotika, aan diere wat ingeënt is, word teenaangedui; aangesien die entstof se werking nadelig beïnvloed sal word deur die antibiotika.
- Antibiotika moet vir 'n hele paar dae voor- en na inenting nie aan diere toegedien word nie.
- Gebruik die volle inhoud van 'n flessie sodra dit ooggemaak word.
- Moenie in diere anders as die aangeduide spesies gebruik word nie.
- **MOENIE IN DRAGTIGE DIERE GEBRUIK NIE.**
- Moenie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- Moenie binnears toegedien word nie.
- **HOU DIE PRODUK BIJTE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.**
- Alhoewel hierdie produk breedvoerig onder 'n wye verskeidenheid van toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien vermoed word dat die produk gevaal het, raadpleeg 'n veearts en verwittig die Registrasiehouer.

VOORSORGMATREËLS

- Volg standaard steriele prosedures tydens toediening van inspuittings. Verseker dat alle entstof-toerusting (houers, spuite en naalde) skoon en steriel is voor en tydens gebruik. Gebruik steriele toerusting vir die toediening van die entstof.
- **Spuite en naalde wat gebruik word vir die toediening van BRU-TECT S19 mag nie vir enige ander doel gebruik word nie. Indien spuite en naalde hergebruik word vir BRU-TECT S19 toediening, moet dit slegs vir hierdie doel eenkant gehou word. Waar chemiese sterilisasie van naalde en spuite gebruik word, moet die naalde en spuite na afloop van sterilisasie afgespoel word in gekookte water (wat afgekoel is), voordat dit hergebruik mag word. Dit sal verseker dat die verswakte, lewende bakteriese komponent van die volgende dosis nie deur die ontsmettingsmiddel vernietig word nie.**
- Raadpleeg 'n veearts of staatsveearts voor gebruik.
- **'n Enkele inentingsdosis van hierdie entstof kan nie volkome immuniteit in alle diere teweegbring nie. Daarom moet volle vertroue nie in die entstof alleenlik geplaas word vir die voorkoming en beheer van brucellose nie. Dit is belangrik om 'n veearts te raadpleeg vir bykomende voorsorg en riglyne om die siekte te beheer.**
- Dra beskermende klere, maskers en handskoene, ens. in lyn met die standaard vir gevaarlike middels.
- Vermoed kontak van die produk met die vel, oë en mond.
- Moenie eet, drink of rook tydens hantering van die produk nie.
- Volg die inentingsprogram om sodoende optimale resultate te verkry.
- Vernietig enige ongebruikte entstof en verwyder entstofhouers en entstof-toerusting na gebruik, in ooreenstemming met die Nasionale Wet op Omgewingsafval, 2008 (Wet 59 van 2008).
- Moenie riviere, damme of enige waterbronne met houers of afval besoedel nie.

Lokale reaksies mag voorkom by die inspuittingsplek van sommige diere. Dit sal verdwyn na 'n paar dae. Indien u ernstige reaksies opmerk wat nie in hierdie voubiljet vermeld is nie, stel asseblief u veearts in kennis.

GEBRUIKSAANWYSINGS

- **Gebruik slegs soos aangedui.**
- **Vir die 20 ml en 100 ml pakgroottes:**
Gebruik 'n steriele spuit om 2 ml tot 3 ml van die **Bru-Tect S19** verdunningsmiddel op te trek vanuit die plastiek flessie. Dra dit oor na die 7 ml glas flessie wat die lewende, verswakte *B. abortus* S19 gevriesdroogde koek bevat. Meng deeglik, maar versigtig totdat die poeier opgelos is. Trek die inhoud weer versigtig op vanuit die glas flessie tot in die spuit; **SPUIT DIE OPLOSSING TERUG** in die aanvanklike plastiek flessie wat die verdunningsmiddel bevat. Meng versigtig sodat die bakteriële suspensie eweredig deur die vloeistof versprei. **Gebruik die volle inhoud van die flessie binne 2 ure na hersamestelling.**

DOSIS

- Spuit 'n enkele dosis van 2 ml onderhuids, slegs aan die kant van die nek, in verse met 'n ouderdom van 4 tot 8 maande. MOENIE van die aanbevole roete en inspuittingsplek afwyk nie. Moenie enting herhaal nie. **Raadpleeg asseblief u veearts.**

AANBIEDING

Die 20 ml pakgrootte (10 dossisse) en 100 ml pakgrootte (50 dossisse) bevat:

- **Gevriesdroogde komponent:** 'n afwit gevriesdroogde koek word aangebied in 'n 7 ml glas flessie, verseël met 'n rubber stopprop en 'n goue aluminium doppie.
- **Verdunningsmiddel:** 'n helder kleurlose oplossing word aangebied in 'n 20 ml of 100 ml hoëdigtheid-poliëteleen (HDPE) flessie van natuurlike kleur, verseël met 'n goue aluminium kombinasie doppie.

Beide komponente word geëtiketteer en dan saam verpak in 'n produkspesifieke buitenste kartonhouer.

REGISTRATION HOLDER

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BRU-TECT Rev1

Reg. No. G4497 (Act 36/1947)

SCIENTIFICALLY PROVEN

Prevention of contagious abortion and milk contamination. **BRU-TECT Rev1 supports and protects** your herd against **ovine and caprine brucellosis**.

Bru-Tect Rev 1 is a lyophilised vaccine containing live attenuated *Brucella melitensis* Rev 1 for the prevention of ovine and caprine brucellosis. Prophylactic immunisation against *Brucella ovis* infection (epididymitis, orchio-epididymitis and infertility) is indicated for ovine ram lambs only. Prophylactic immunisation against *Brucella melitensis* infection is indicated for ovine lambs and caprine kids of both sexes.

Brucellosis is a controlled disease in terms of the Animal Diseases Act (Act No. 35 of 1984) and any suspicion or confirmation of the disease must be reported to the responsible state veterinarian immediately.

STORAGE INSTRUCTIONS

Store and transport refrigerated between 2 °C to 8 °C. Protect from light. Do not freeze. Do not use this veterinary vaccine after the expiry date which is stated on the container label. **In-use shelf life: use immediately or within 2 hours of opening. Do not store partially used containers for future use.**

COMPOSITION PER DOSE (2 ml)

Bru-Tect Rev 1 is a lyophilised vaccine containing live attenuated *Brucella melitensis* Rev 1. Each 2 ml (1 dose) of reconstituted vaccine contains 5×10^8 cfu/dose - 2×10^9 cfu/dose.

WARNINGS

- **WITHDRAWAL PERIOD:** DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.
- Vaccinate healthy animals only.
- Do NOT mix with any other vaccine or immunological product. No information is available on the compatibility of **Bru-Tect Rev 1** with any other vaccine or medication.
- Potentially harmful to humans. Care should be taken to avoid direct contact and self-injection or eye or skin contamination. **If contact occurs, rinse affected area repeatedly with clean water.**
- Medical advice should be sought in the event of accidental exposure.
- Do not over- or under-dose the vaccine.
- Usually no marked reaction follows vaccination although a transient

swelling may appear at the site of inoculation, and some animals may show a moderate rise of temperature for one or two days.

- Ensure that marketed animals do not have local reactions (swellings) at the site of vaccine administration, or elevated temperature reactions (fever) as this may result in the condemnation of the carcasses.
- Simultaneous administration of antibiotics to vaccinated animals is contraindicated as the antibiotic will interfere with the vaccine.
- Antibiotics should not be given for several days before and after vaccination.
- Use the entire contents of a vial once opened.
- Do not use in animal species other than those indicated.
- DO NOT USE IN PREGNANT ANIMALS.
- **DO NOT USE IN MALE ANIMALS OLDER THAN 4 MONTHS.**
- Do not administer to animals in poor or extremely poor body condition.
- Do not inject intravenously.
- KEEP THE PRODUCT OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- Although this product has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the Registration holder.

PRECAUTIONS

- Observe aseptic precautions. Ensure that all vaccination equipment (containers, syringes and needles) are clean and sterile prior to and during use. Use sterile equipment when administering the vaccine.
- **Syringes and needles that are used for BRU-TECT Rev 1 administration, should not be used for any other purpose. If syringes and needles are re-used for BRU-TECT Rev 1 administration, they must be dedicated for this purpose only. Where chemical sterilisation of needles and syringes is practised, rinse needles and syringes in boiled (cooled down) water before re-use; to ensure that the attenuated live bacterial component of the next dose is not destroyed by the disinfectant.**

- Consult a veterinarian or state veterinarian before use.
- **A single inoculation of this vaccine will not produce absolute immunity in all animals. Therefore, complete reliance should not be placed on the vaccine alone to prevent and control brucellosis. It is important that a veterinarian be consulted regarding additional control measures.**
- Wear protective clothing, masks, gloves etc. according to hazard standards.
- Do not eat, drink or smoke whilst handling the product.
- Adhere to the vaccination programme to obtain optimum results.
- Destroy any unused vaccine and dispose of all vaccine containers and disposable equipment after use, in accordance with the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008).
- Do not contaminate rivers, dams or any water sources with containers or waste.

Local reactions may occur in some animals at the injection site. They will disappear after a few days. If you notice any serious effects not mentioned in this leaflet, please inform your veterinarian.

DIRECTIONS FOR USE

- **Use only as directed.**
- Draw up 2 ml to 3 ml of the **Bru-Tect Rev 1** diluent component from the HDPE vial and inject into the 7 ml glass vial containing the live attenuated *B. melitensis* Rev 1 lyophilised cake. Mix gently to dissolve the powder, aspirate contents gently and **TRANSFER BACK** into the HDPE diluent vial. Mix gently to distribute the bacterial suspension evenly throughout the liquid. **Use the entire contents of the vial within 2 hours of reconstitution.**

DOSAGE

- ***B. ovis***: Single 2 ml subcutaneous injection on the side of the neck only, in ovine ram lambs only, between 2 and 4 months of age. **Goats do not develop *B. ovis* infections and should not be vaccinated for this purpose.**
- ***B. melitensis***: Single 2 ml subcutaneous injection on the side of the neck only, in ovine lambs and caprine kids of both sexes, between 2 and 4 months of age. **Vaccination against *B. melitensis* Rev 1 is not common practice as the disease is not widespread within the country.**
- **Inject ovine lambs or caprine kids subcutaneously, on the side of the neck. DO NOT deviate from the recommended route and injection site location.**
- **Please consult with your veterinarian.**

PRESENTATION

The 20 ml pack size (10 doses) contains:

- **Lyophilised component:** an off-white freeze-dried cake is presented in a 7 ml glass vial, stoppered with a rubber bung and capped with a gold-coloured aluminium cap.
- **Diluent component:** a clear and colourless liquid diluent is presented in a 20 ml high density polyethylene (HDPE) vial of natural colour, capped with a gold-coloured aluminium combination seal.

Both components are labelled and packed together in a product-specific outer cardboard carton.

Bru-Tect Rev 1 is 'n gevriesdroogde entstof wat lewende, verswakte *Brucella melitensis* Rev 1 bevat, vir die voorkoming van brucellose in skape en bokke. Profylaktiese inenting is slegs aangedui vir skaap ramlammers teen *Brucella ovis* infeksie (bybalontsteking en onvrugbaarheid). Profylaktiese inenting is aangedui vir skaaplammers en boklammers van beide geslagte, vir die voorkoming van *Brucella melitensis* infeksie.

Brucellose is 'n beheerde dieriesekte kragtens die Wet op Dieriesektes (Wet Nr. 35 van 1984). Enige vemoede of bevestigde gevalle van die siekte moet onmiddellik aan die verantwoordelike staatsveearts gerapporteer word.

BERGINGSAAWYSINGS

Bêre in 'n yskas en verkoel tydens vervoer tussen 2 °C en 8 °C. Beskerm teen lig. Moenie vries nie. Moenie hierdie veeartsenykundige entstof gebruik na die vervaldatum wat op die verpakking aangedui is nie. **Rakleefyd na eerste oopmaak van die flessie: gebruik onmiddellik of binne 2 ure na oopmaak. Moenie ongebruikte entstof berg vir latere gebruik nie.**

SAMESTELLING PER DOSIS (2 ml)

Bru-Tect Rev 1 is 'n gevriesdroogde entstof wat lewende, verswakte *Brucella melitensis* Rev 1 bevat. Elke 2 ml (1 dosis) hersaamgestelde entstof bevat 5×10^8 cfu/dosis - 2×10^9 cfu/dosis.

WAARSKUWINGS

- **ONTTREKKINGSPERIODE: MOENIE DIERE BINNE 21 DAE NA INENTING VIR MENSLIKE VERBRUIK SLAG NIE.**
- Slegs gesonde diere moet ingeënt word.
- **MOENIE** met enige ander entstof of immunologiese produk meng nie. Geen informasie is beskikbaar in verband met die verenigbaarheid van **Bru-Tect Rev 1** met enige ander entstof of medisyne nie.
- Potensieël skadelik vir mense. Voorsorg moet getref word om direkte kontak met die produk, self-inspuiting, of kontaminasie van die oë of vel te voorkom. Indien kontak plaasvind, spoel die geaffekteerde area herhaaldelik met skoon water af.
- Verkry mediese advies in die geval van toevallige blootstelling aan die produk.
- Moenie die entstof oor- of onderdoseer nie.
- Normaalweg volg geen merkbare reaksie na inenting nie, alhoewel kortstondige swelling op die plek van inenting kan voorkom en sommige diere 'n matige styging in temperatuur vir een of twee dae kan toon.
- Verseker dat diere wat bemark word geen lokale reaksies (swelling) by die entstof toedieningsplek of verhoogde liggaamstemperatuur (koorsreaksie) toon nie, aangesien dit kan lei tot afkeur van karkasse.
- Gelyklopende toediening van antibiotika, aan diere wat ingeënt is, word teenaangedui aangesien die entstof se werking nadelig deur die antibiotika beïnvloed sal word.
- Antibiotika moet nie vir 'n hele paar dae voor en na inenting aan diere toegedien word nie.
- Gebruik die volle inhoud van 'n flessie sodra dit oopgemaak word.
- Moenie in diere anders as die aangeduide spesies gebruik word nie.
- **MOENIE IN DRAGTIGE DIERE GEBRUIK NIE.**
- **MOENIE IN RAMME OUER AS 4 MAANDE GEBRUIK NIE.**

- Moenie toegedien word aan diere in 'n swak of uiters swak liggaamskondisie nie.
- Moenie binnears toegedien word nie.
- HOU DIE PRODUK BUITE BEREIK VAN KINDERS, ONINGELIGTE PERSENE EN DIERE.
- Alhoewel hierdie produk breedvoerig onder 'n wye verskeidenheid van toestande getoets is, mag dit vaal as gevolg van verskeie redes. Indien vermoed word dat die produk gevaal het, raadpleeg 'n veearts en verwittig die Registrasiehouer.

VOORSORGMATREËLS

- Volg standaard steriele prosedures tydens toediening van inspuittings. Verseker dat alle entstof-toerusting (houers, spuite en naalde) skoon en steriel is voor en tydens gebruik. Gebruik steriele toerusting vir die toediening van die entstof.
- **Spuite en naalde wat gebruik word vir die toediening van BRU-TECT Rev 1 mag nie vir enige ander doel gebruik word nie. Indien spuite en naalde hergebruik word vir BRU-TECT Rev 1 toediening, moet dit slegs vir hierdie doel eenkant gehou word. Waar chemiese sterilisasie van naalde en spuite gebruik word, moet die naalde en spuite na afloop van sterilisasie afgespoel word in gekookte water (wat afgekoel is), voordat dit hergebruik mag word. Dit sal verseker dat die verswakte, lewende bakteriese komponent van die volgende dosis nie deur die ontsmettingsmiddel vernietig word nie.**
- Raadpleeg 'n veearts of staatsveearts voor gebruik.
- **'n Enkele inentingsdosis van hierdie entstof kan nie volkome immuniteit in alle diere teweegbring nie. Daarom moet volle vertroue nie in die entstof alleen geplaas word vir die voorkoming en beheer van brucellose nie. Dit is belangrik om 'n veearts te raadpleeg vir bykomende voorsorg en riglyne om die siekte te beheer.**
- Dra beskermende klere, maskers en handskoene, ens. in lyn met die standaard vir gevaarlike middels.
- Moenie eet, drink of rook tydens hantering van die produk nie.
- Volg die inentingsprogram om sodoende optimale resultate te verkry.
- Vernietig enige ongebruikte entstof en verwyder entstofhouers en entstof-toerusting na gebruik, in ooreenstemming met die Nasionale Wet op Omgewingsafval, 2008 (Wet 59 van 2008).
- Moenie riviere, damme of enige waterbronne met houers of afval besoedel nie.

Lokale reaksies mag voorkom by die inspuittingsplek van sommige diere. Dit sal verdwyn na 'n paar dae. Indien u ernstige reaksies opmerk wat nie in hierdie voulibjlet vermeld is nie, stel asseblief u veearts in kennis.

GBRUIKSAANWYSINGS

- **Gebruik slegs soos aangedui.**
- Gebruik 'n steriele spuit om 2 ml tot 3 ml van die **Bru-Tect Rev 1** verdunningsmiddel op te trek vanuit die plastiek flessie. Dra dit oor na die 7 ml glas flessie wat die lewende, verswakte *B. melitensis* Rev 1 gevriesdroogde koek bevat. Meng deeglik, maar versigtig totdat die poeier opgelos is. Trek die inhoud weer versigtig op vanuit die glas flessie tot in die spuit; **SPUIT DIE OPLOSSING TERUG** in die aanvanklike plastiek flessie wat die

verdunningsmiddel bevat. Meng versigtig sodat die bakteriële suspensie eweredig deur die vloeistof versprei. Gebruik die volle inhoud van die flessie binne 2 ure na hersamestelling.

DOSIS

- ***B. ovis***: 'n Enkeldosis van 2 ml via die onderhuidse roete aan die kant van die nek, slegs in skaap ramlammers, met 'n ouderdom van 2 tot 4 maande. **Bokke is nie vatbaar vir *B. ovis* infeksies nie en moet dus nie hiervoor ingeënt word nie.**
- ***B. melitensis***: 'n Enkeldosis van 2 ml via die onderhuidse roete aan die kant van die nek, in skaaplammers en boklammers van beide geslagte, met 'n ouderdom van 2 tot 4 maande. **Enting teen *B. melitensis* Rev 1 is nie algemene praktyk nie, aangesien die siekte nie wydverspreid in die land voorkom nie.**
- **Spuite skaaplammers of boklammers onderhuids, slegs aan die kant van die nek. MOENIE van die aanbevole roete en inspuittingsplek afwyk nie.**
- Raadpleeg asseblief u veearts.

AANBIEDING

Die 20 ml pakgrootte (10 dossisse) bevat:

- **Gevriesdroogde komponent**: 'n afwit gevriesdroogde koek word aangebied in 'n 7 ml glas flessie, verseël met 'n rubber stopprop en 'n goue aluminium doppie.
- **Verdunningsmiddel**: 'n helder kleurlose oplossing word aangebied in 'n 20 ml hoëdigtheid-poliëteleen (HDPE) flessie van natuurlike kleur, verseël met 'n goue aluminium kombinasie doppie.

Beide komponente word geëtiketteer en dan saam verpak in 'n produkspesifieke buitenste kartonhouer.

REGISTRATION HOLDER

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Enterotect P

Reg. No. G4256 (Act 36/1947)

SCIENTIFICALLY PROVEN

Enterotect P is a vaccine that aids in the prevention of sheep and goat **Pneumonia (Pasteurellosis)**.

Enterotect P is used for vaccinating healthy sheep and goats as an aid in preventing pneumonic pasteurellosis caused by *Mannheimia haemolytica*, enterotoxaemia caused by *Clostridium perfringens* Type A and pulpy kidney caused by *Clostridium perfringens* Type D. **Enterotect P** is safe for use in pregnant animals and maternal antibodies are transferred to newborns through the intake of immune colostrum within 48 hours after birth.

COMPOSITION

Alum-precipitated suspensions of *M. haemolytica* leukotoxin with inactivated *C. perfringens* Type A (alpha toxoid) and *C. perfringens* Type D (epsilon toxoid) for use in sheep and goats.

STORAGE

- Store in a refrigerator between 2 °C to 8 °C.
- Do not freeze.
- Protect from high temperatures and sunlight during vaccination.
- Do not use **Enterotect P** after the expiry date printed on the container.

WARNINGS

- **WITHDRAWAL PERIOD:** DO NOT SLAUGHTER ANIMALS FOR HUMAN CONSUMPTION WITHIN 21 DAYS OF VACCINATION.
- Vaccinate healthy animals only.
- Use the entire contents of the vial once opened.
- Discard any empty containers and any unused contents in accordance with local waste disposal regulations.
- KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- Although this vaccine has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder.

DIRECTIONS FOR USE - USE ONLY AS DIRECTED

Shake gently and thoroughly by end over end mixing before and during use. Use sterile needles and syringes only. Do not use chemical sterilisation as traces of disinfectant may negatively affect the vaccine. Do not mix **Enterotect P** with any other vaccines or substances.

DOSAGE

Administer a single 1 ml dose subcutaneously in healthy sheep and goats followed by a second dose 4 to 6 weeks later. The booster vaccination is very important for the development of immunity.

PRESENTATION

Natural white, see-through, high-density polyethylene (HDPE) 20 ml and 100 ml vials closed with gold coloured aluminium combination seals.

Enterotect P word gebruik vir die inenting van gesonde skape en bokke as 'n hulpmiddel in die voorkoming van pneumoniese pasteurellose wat veroorsaak word deur *Mannheimia haemolytica*, enterotoksemie (rooierdm) veroorsaak deur *Clostridium perfringens* Tipe A en bloednier veroorsaak deur *Clostridium perfringens* Tipe D. **Enterotect P** is veilig vir gebruik in dragtige diere en moederteenliggame word binne 48 uur na geboorte oorgedra aan pasgeborenes deur die inname van kolostrum.

SAMESTELLING

Aluin-gepresipiteerde suspensie van *M. haemolytica* leukotoksien met geïnaktiveerde *C. perfringens* Tipe A (alfa toksoid) en *C. perfringens* Tipe D (epsilon toksoid) vir gebruik in skape en bokke.

BERGING

- Berg in 'n yskas tussen 2°C en 8°C.
- Moenie vries nie.

- Vermoed blootstelling aan hoë temperature en direkte sonlig gedurende enting.
- Moenie **Enterotect P** gebruik na die vervaldatum wat op die bottel gedruk is nie.

WAARSKUWINGS

- **ONTTREKKINGSPERIODE:** DIERE MOENIE BINNE 21 DAE NA ENTING VIR MENSLIKE VERBRUIK GESLAG WORD NIE.
- Ent slegs gesonde diere.
- Moenie ongebruikte entstof berg vir latere gebruik nie.
- Vernietig alle leë houers en ongebruikte vloeistof volgens plaaslike afvalbestuursregulasies.
- **HOU BUITE DIE BEREIK VAN KINDERS, ONINGELIGTE PERSONE EN DIERE.**
- Alhoewel hierdie entstof breedvoerig onder 'n wye verskeidenheid toestande getoets is, mag dit faal as gevolg van verskeie redes. Indien dit vermoed word, raadpleeg 'n veearts en verwittig die registrasiehouer.

GEBRUIKSAANWYSINGS – GEBRUIK SLEGS SOOS AANGEDUI

Skud liggies en meng deeglik voor en tydens gebruik deur die flessie 'n paar keer onderstebo en terug te dop. Gebruik slegs steriele naalde en spuite. Moenie chemiese sterilisasie gebruik nie, aangesien spore van ontsmettingsmiddels die entstof negatief kan beïnvloed. Moenie **Enterotect P** met ander entstowwe of middels meng nie.

DOSIS

Dien 'n enkele 1 ml dosis onderhuids toe in gesonde skape en bokke, gevolg deur 'n tweede dosis 4 tot 6 weke later. Dié skraaginenting is baie belangrik vir die ontwikkeling van immuniteit.

AANBIEDING

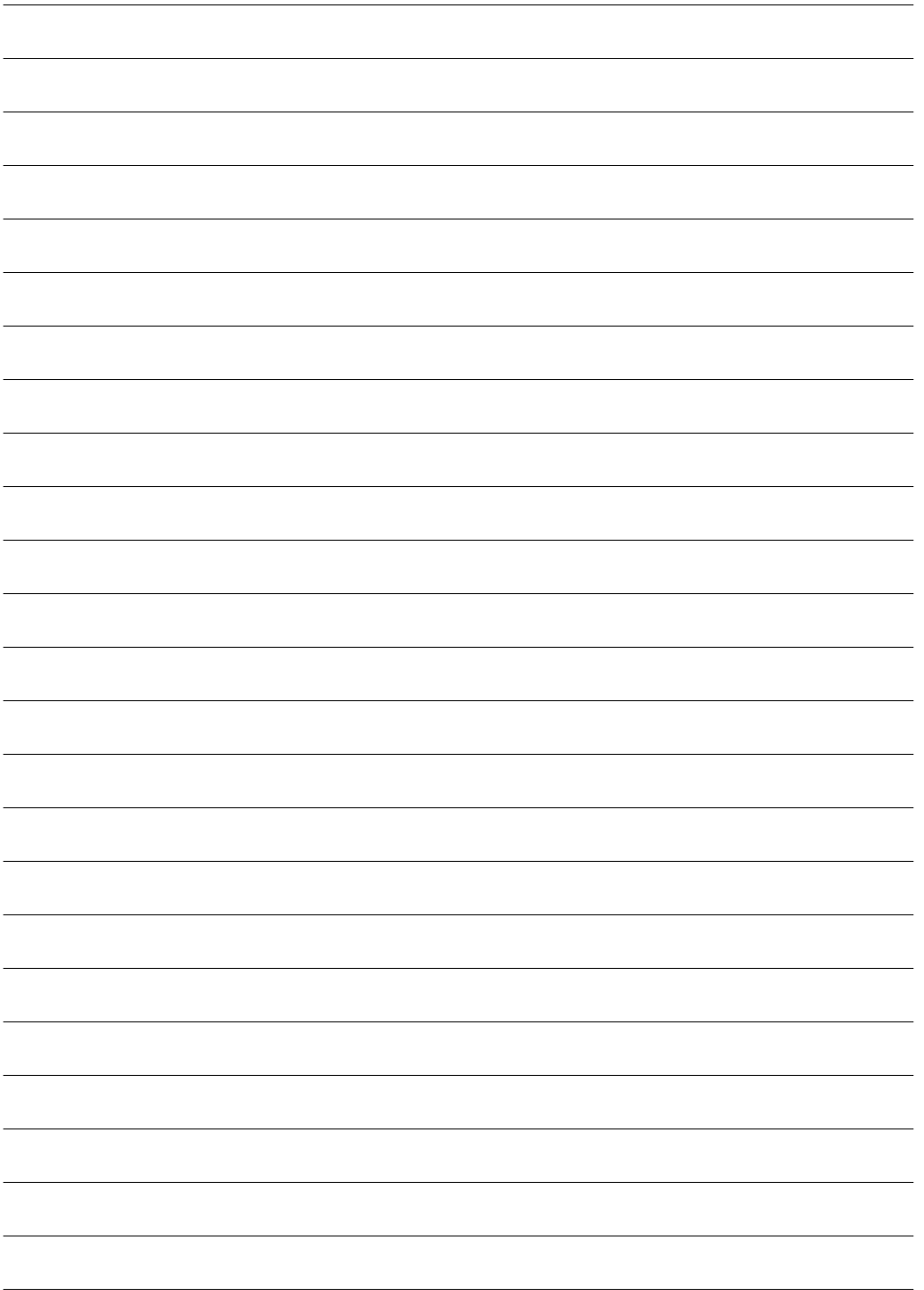
Natuurlike wit, deurskynende, hoëdigheidspoliëteleen (HDPE) 20 ml en 100 ml flessies toegemaak met goudkleurige aluminium kombinasie seëls.

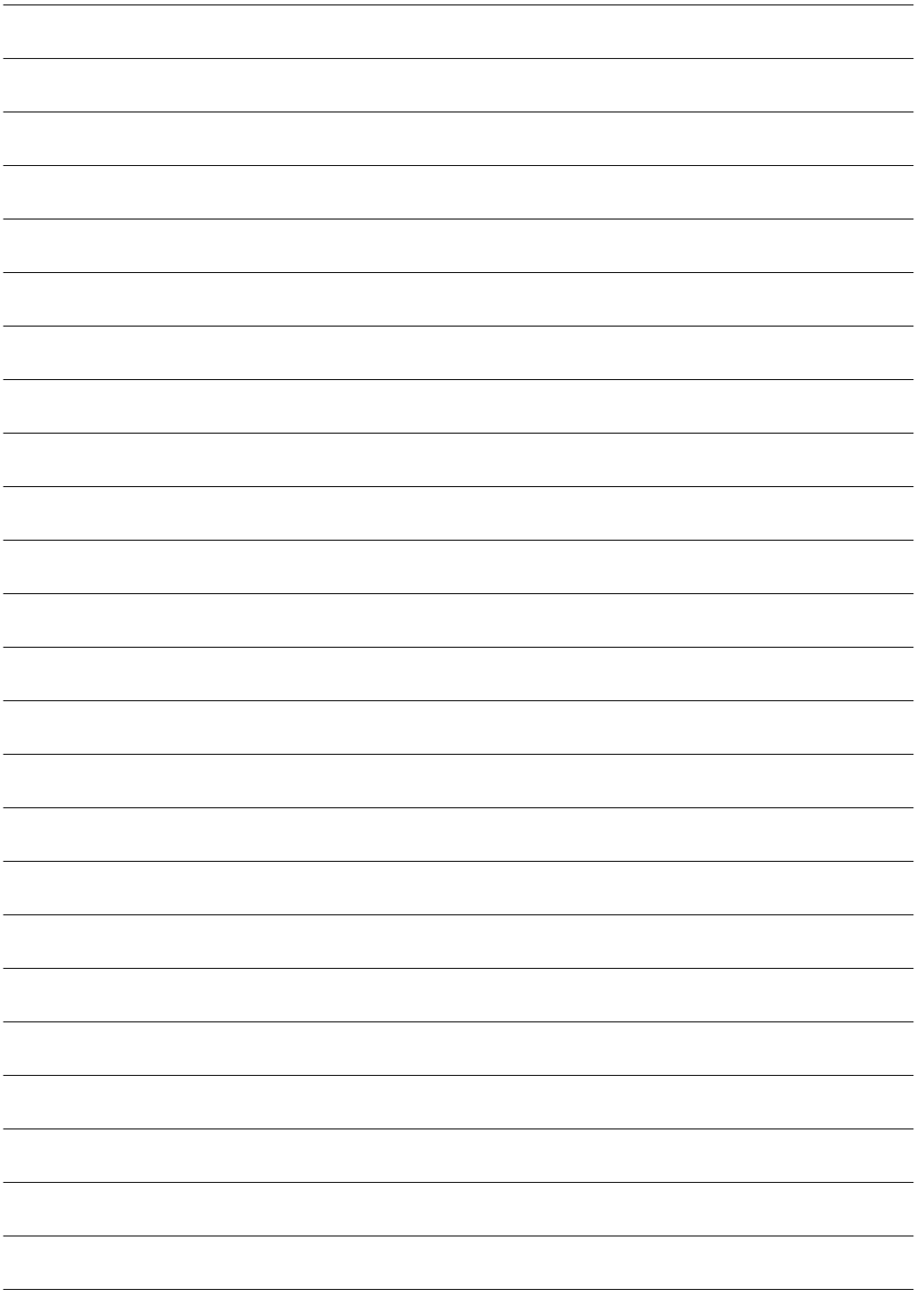
REGISTRATION HOLDER

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