

## **SUMMARY OF PRODUCT CHARACTERISTICS**

### **1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Strangvac Suspension for Injection for Horses and Ponies

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

One dose (2 ml) contains:

#### **Active substances:**

One dose (2 ml) contains:

Recombinant protein CCE from <i>Streptococcus equi</i>	≥ 111.8 micrograms*
Recombinant protein Eq85 from <i>Streptococcus equi</i>	≥ 44.6 micrograms*
Recombinant protein IdeE from <i>Streptococcus equi</i>	≥ 34.6 micrograms*

\* as determined by means of in vitro potency tests (ELISA)

#### **Adjuvants:**

Purified Quillaia saponin QS-21 (Fraction C)	≥ 260 micrograms
Cholesterol	
Phosphatidyl choline.	

#### **Excipients:**

For the full list of excipients, see section 6.1.

### **3. PHARMACEUTICAL FORM**

Suspension for injection.  
Colourless to pale yellow suspension.

### **4. CLINICAL PARTICULARS**

#### **4.1 Target species**

Horses and ponies

#### **4.2 Indications for use, specifying the target species**

Active immunisation of horses and ponies from 5 months of age for:

- Reduction of body temperature increase, coughing, inappetence, difficulty swallowing, and changes in demeanour in the acute stage of infection with *Streptococcus equi*.

- Reduction of number of abscesses within submandibular and retropharyngeal lymph nodes.

Onset of immunity: 2 weeks after the second vaccination dose.

Duration of immunity: 2 months after the second vaccination dose.

#### **4.3 Contraindications**

None.

#### **4.4 Special warnings for each target species**

Vaccinate healthy animals only.

Effect of vaccination on further stages of the infection, rupture of developed lymph node abscesses, prevalence of subsequent carrier status, bastard strangles (metastatic abscessation), purpura haemorrhagica and myositis and recovery, is not known.

Efficacy has been demonstrated for the individual horse to reduce clinical signs of disease in the acute stage of the infection. Vaccinated horses can be infected and shed *S. equi*.

#### **4.5 Special precautions for use**

##### Special precautions for use in animals

No information is available on the use of the vaccine in seropositive animals, including those with maternally derived antibodies.

Biosecurity procedures to limit the risk of introduction and spread of *S. equi* infection in premises should be part of management tools.

##### Special precautions to be taken by the person administering the veterinary medicinal product to animals

In case of accidental self-injection, seek medical advice immediately and show the package leaflet or the label to the physician. An allergic reaction may occur. Treat symptomatically. Strangvac contains saponins, which have little toxicity for humans when ingested but have haemolytic effects when injected intravenously.

#### **4.6 Adverse reactions (frequency and seriousness)**

A transient increase in body temperature of up to 2.6 °C for one to five days is very common following vaccination.

Ocular discharge which may be mucopurulent and present from both eyes is very commonly seen for one to five days after vaccination.

Transient local tissue reactions at the injection site, characterised by heat, pain and swelling (approximately 5 cm diameter) are very commonly seen and last for up to five days. Frequency of injection site reactions are more pronounced after the second primary dose and further doses. Injection site swellings exceeding 8 cm are uncommonly seen; the majority of these have been observed in the pectoral muscle. Muscle stiffness around the injection site occurs uncommonly.

Loss of appetite and demeanour changes for one day are common.

Anaphylactic-like reactions occur in very rare cases.

The frequency of adverse reactions is defined using the following convention:

- very common (more than 1 in 10 animals treated displaying adverse reactions)
- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports).

#### **4.7 Use during pregnancy, lactation or lay**

##### Pregnancy and lactation:

The safety of the veterinary medicinal product has not been established during pregnancy or lactation. The use of this vaccine is not recommended during pregnancy or lactation.

##### Fertility:

The safety and efficacy of the vaccine has not been established in breeding males. The vaccine should be used only according to the benefit-risk assessment by the responsible veterinarian.

#### **4.8 Interaction with other medicinal products and other forms of interaction**

No information is available on the safety and efficacy of this vaccine when used with any other veterinary medicinal product. A decision to use this vaccine before or after any other veterinary medicinal product therefore needs to be made on a case by case basis.

#### **4.9 Amounts to be administered and administration route**

Intramuscular use.

Shake the vial well before use. Avoid multiple vial broaching. Avoid introduction of contamination.

It is recommended that all horses and ponies in a stable are vaccinated.

##### **Vaccination schedule:**

###### *Primary vaccination course:*

Administer one dose (2 ml) by intramuscular injection, followed by a second dose (2 ml) four weeks later.

###### *Revaccination:*

In horses at high risk of *S. equi* infections it is recommended to repeat the primary vaccination regimen after two months.

#### **4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary**

Not applicable

#### **4.11 Withdrawal period(s)**

Zero days.

## 5. IMMUNOLOGICAL PROPERTIES

Pharmacotherapeutic group: immunologicals for *Equidae*, inactivated bacterial vaccines for horses.

ATCvet code: QI05AB01 – streptococcus.

The vaccine contains recombinant protein antigens derived from *Streptococcus equi*, which are not living and cannot spread to other animals. Strangvac stimulates active immunity against *Streptococcus equi*, the causative agent of strangles in horses. After vaccination, in addition to antibodies in the blood, local antibodies (IgG) can also be detected in secretions from the nasal passages. The immunogenicity of the *Streptococcus equi* antigens is enhanced by ISCOM (Immune Stimulating COMplex). Based on measured antibody titers immunological memory response was found in horses following repeated vaccination 6 months after primary vaccination. The role of the measured antibodies in the immune response relevant for the protection against strangles is not known.

Strangvac does not contain the DNA targets of diagnostic qPCR tests for *Streptococcus equi* or the A and C antigens used in the iELISA diagnostic test for exposure to *Streptococcus equi*.

## 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Purified Quillaia saponin QS-21 (Fraction C)  
Cholesterol  
Phosphatidyl choline  
Sodium chloride  
Trometamol  
Polysorbate 80  
Water for injections

### 6.2 Major incompatibilities

Do not mix with any other veterinary medicinal product.

### 6.3 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 33 months.  
Shelf life after first opening the immediate packaging: use immediately.

### 6.4 Special precautions for storage

Store and transport refrigerated (2 °C – 8 °C).  
Do not freeze.  
Keep the vial in the outer carton in order to protect from light.

### 6.5 Nature and composition of immediate packaging

Type I glass vial closed with a bromobutyl rubber stopper and sealed with a white aluminium crimp cap.

**Package size:**

Cardboard box with 8 vials of 1 dose (2 ml).

**6.6 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

**7. MARKETING AUTHORISATION HOLDER**

Intervacc AB  
Västertorpsvägen 135, Hägersten  
SE-129 44 Stockholm  
Sweden

**8. MARKETING AUTHORISATION NUMBER**

Vm 52661/5000

**9. DATE OF FIRST AUTHORISATION**

17 September 2021

**10. DATE OF REVISION OF THE TEXT**

September 2024

*Gavin Hall*  
Approved: 09 January 2025