

## **SUMMARY OF PRODUCT CHARACTERISTICS**

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

COXEVAC suspension for injection for cattle, goats and sheep

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

Each ml contains:

#### **Active substance:**

Inactivated *Coxiella burnetii*, strain Nine Mile  $\geq 72$  QF Units\*

\*QF (Q fever) Unit: relative potency of phase I antigen measured by ELISA in comparison with a reference item.

#### **Excipient:**

Thiomersal  $\leq 120$  µg.

For the full list of excipients, see section 6.1.

### **3. PHARMACEUTICAL FORM**

Suspension for injection.

Whitish, opalescent, homogeneous suspension.

### **4. CLINICAL PARTICULARS**

#### **4.1 Target species**

Cattle, goats and sheep

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

##### Cattle:

For the active immunisation of cattle to lower the risk for non-infected animals vaccinated when nonpregnant to become shedder (5 times lower probability in comparison with animals receiving a placebo), and to reduce shedding of *Coxiella burnetii* in these animals via milk and vaginal mucus.

Onset of immunity: not established.

Duration of immunity: 280 days after completion of the primary vaccination course.

##### Goats:

For the active immunisation of goats to reduce abortion caused by *Coxiella burnetii* and to reduce shedding of the organism via milk, vaginal mucus, faeces and placenta.

Onset of immunity: not established.

Duration of immunity: one year after completion of the primary vaccination course.

##### Sheep:

For the active immunisation of sheep against *Coxiella burnetii* to reduce shedding of the organism via milk, vaginal mucus and faeces.

Onset of immunity: not established

Duration of immunity: 4 months

### 4.3 Contraindications

None.

### 4.4 Special warnings for each target species

Vaccination of animals already infected at the time of vaccination will have no adverse effect.

No efficacy data are available concerning the use of COXEVAC in male animals. However, in safety laboratory trials, the use of COXEVAC in males proved to be safe. In the case that it is decided to vaccinate the whole herd, it is advisable to vaccinate the male animals at the same time.

There are no benefits of the vaccine (as described in the indications for cattle), when used in infected and/or pregnant cows.

The biological significance of the levels of reduction shown in shedding in cattle and goats is not known.

### 4.5 Special precautions for use

i) Special precautions for use in animals

It is advisable to vaccinate all the animals in the herd at the same time.

Under field conditions, vaccination with COXEVAC has commonly been followed by a decrease in milk production in goats. Since stress could contribute to this adverse reaction, appropriate precautions should be taken to reduce stress as much as possible during the administration of the product.

ii) 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.

iii) Other precautions

None

### 4.6 Adverse reactions (frequency and seriousness)

Cattle:

Very common (>1 animal / 10 animals treated):	Injection site swelling*
Rare (1 to 10 animals / 10,000 animals treated):	Lethargy, Hyperthermia, Anorexia

\* Palpable, of 9 to 10 cm diameter maximum, which may last for 17 days, reduces gradually and disappears without need for treatment.

### Goats:

Very common (>1 animal / 10 animals treated):	Injection site swelling* Hyperthermia**
Uncommon (1 to 10 animals / 1,000 animals treated):	Lethargy, Malaise, Anorexia
Rare (1 to 10 animals / 10,000 animals treated):	Diarrhoea

\* Palpable, of 3 to 4 cm diameter maximum, which may last for 6 days, reduces and disappears without need for treatment.

\*\* For 4 days post-vaccination.

### Sheep:

Very common (>1 animal / 10 animals treated):	Injection site inflammation, application site thickening*
Rare (1 to 10 animals / 10,000 animals treated)	Lethargy, Hyperthermia**, Anorexia

\* Palpable, of 5 cm diameter maximum, which may last for 14 days, reduces and disappears without need for treatment. Reactions are expected to be more severe after the second injection.

\*\* 2.5°C increase maximum, not lasting more than one day.

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or the national competent authority via the national reporting system. See also section 16 of the package leaflet for contact details.

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

### Cattle and goats:

The safety of the veterinary medicinal product has not been established during pregnancy.

The vaccine can be used during lactation.

Under field conditions, vaccination with COXEVAC has been followed by a decrease in milk production, commonly in goats and rarely in cattle. Since stress could contribute to this adverse reaction, appropriate precautions should be taken to reduce stress as much as possible during the administration of the product.

### Sheep:

The safety of the veterinary medicinal product has not been established during pregnancy and lactation.

#### **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 Amount(s) to be administered and administration route**

Subcutaneous use.

Shake well before use.

Administer the vaccine as follows:

Cattle: 4 ml in the neck region.

Goats: 2 ml in the neck region.

Sheep: 2 ml in the neck region.

##### Cattle from 3 months of age:

###### *Primary vaccination:*

Two doses should be given subcutaneously with an interval of 3 weeks. Under normal conditions the timing of vaccination should be planned so that the primary course is completed by 3 weeks before artificial insemination or mating.

###### *Re-vaccination:*

Every 9 months, as described for primary vaccination, based on duration of immunity of 280 days.

##### Goats from 3 months of age:

###### *Primary vaccination:*

Two doses should be given subcutaneously with an interval of 3 weeks. Under normal conditions the timing of vaccination should be planned so that the primary course is completed by 3 weeks before artificial insemination or mating.

###### *Re-vaccination:*

One dose should be given yearly.

##### Sheep from 4 months of age:

###### *Primary vaccination:*

Two doses should be given subcutaneously with an interval of 3 weeks. The vaccination should be done as late as possible but the primary course is needs to be completed by 3 weeks before artificial insemination or mating.

###### *Re-vaccination:*

Prior to each artificial insemination or mating, two doses, 3 weeks apart; the vaccination course should be done as late as possible but needs to be completed at least 3 weeks before the intended start of the reproduction phase.

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

Cattle: With double dose, a palpable reaction of maximum diameter of 10 cm was observed at the injection site, lasting for 16 days. The reaction gradually reduced and disappeared without need for treatment.

Goats: 5 With double dose, a moderate palpable reaction of diameter of 4 to 5 cm was observed at the injection site, lasting for 4 days. The reaction reduced and disappeared without need for treatment.

Sheep: With double dose, a moderate palpable reaction of diameter of less than 2 cm was observed at the injection site, lasting for 12 days. The reaction reduced and disappeared without need for treatment. Nasal shedding has also been observed after vaccination with double dose lasting one day.

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

Meat, milk and offal: Zero days.

### **5. IMMUNOLOGICAL PROPERTIES**

**Pharmacotherapeutic group:** immunologicals for bovidae, inactivated bacterial vaccines for cattle.

**ATC Vet Code:** QI02AB.

The vaccine contains phase I *Coxiella burnetii* as active ingredient inducing active immunity against Q fever in cattle, goats and sheep.

### **6. PHARMACEUTICAL PARTICULARS**

#### **6.1 List of excipients**

Thiomersal  
Sodium chloride  
Disodium hydrogen phosphate  
Potassium dihydrogen phosphate  
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: 2 years.  
Shelf life after first opening the immediate packaging: 10 hours.

#### **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**

Carton box with 1 plastic (LDPE) bottle, containing 40 ml of suspension. Carton box with 1 plastic (LDPE) bottle, containing 100 ml of suspension. Each container is closed with a 20 mm bromobutyl rubber stopper and a central tear-off aluminium plastic cap.

Not all pack sizes may be marketed

#### **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 products should be disposed of in accordance with the local requirements.

### **7 MARKETING AUTHORISATION HOLDER**

Ceva Animal Health Ltd  
Explorer House  
Mercury Park  
Wycombe Lane  
Wooburn Green  
High Wycombe  
Buckinghamshire  
HP10 0HH  
United Kingdom

### **8. MARKETING AUTHORISATION NUMBER**

Vm 15052/5000

### **9. DATE OF FIRST AUTHORISATION**

30 September 2010

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

July 2024

### **PROHIBITION OF SALE, SUPPLY AND/OR USE**

Not applicable.

Approved: 09 July 2024

*Gavin Hall*