

# LIVACOX® Q

## Veterinary Medicinal Preparation Name

LIVACOX® Q susp. ad us. vet.

Quadrivalent live attenuated coccidiosis vaccine for domestic poultry.

## Content of Active and Other Substances

### Active substances

Coccidial oocysts of domestic poultry (*Gallus domesticus*) in 1 dose:

|                           |                         |
|---------------------------|-------------------------|
| <i>Eimeria acervulina</i> | 3 - 5 · 10 <sup>2</sup> |
| <i>Eimeria tenella</i>    | 3 - 5 · 10 <sup>2</sup> |
| <i>Eimeria maxima</i>     | 3 - 5 · 10 <sup>2</sup> |
| <i>Eimeria necatrix</i>   | 1 · 10 <sup>2</sup>     |

### Excipients

Chloraminum B, aqua potabilis.

Whitish suspension.

### Indications

Prevention of coccidiosis brought on by the specified coccidium species in breeders and layers of domestic poultry bread in cages and on litter.

Life-long immunity against coccidiosis brought on by the specified coccidium species will develop 10 - 14 days after vaccination.

### Contraindications

Life-long administration of anticoccidials to the vaccinated poultry. The feeding mixtures given to chickens between 2 days before and 14 days after the vaccination shall not include anticoccidials at effective levels. Sulphonamides shall not be administered between 2 days before and 14 days after the vaccination.

### Adverse Reactions

1 - 2 weeks after vaccination a temporary impairment of feed conversion can be recorded.

### Target Species

Domestic poultry (*Gallus domesticus*), chickens 1 - 10 days old.

## Dosage and Administration Route and Method

### In potable water:

Shake well before use. The preparation should be administered to chicken 1 - 10 days old but the poultry can be vaccinated at any age even during the rearing. Vaccinate only animals in good health. The animals shall consume the preparation within about 2 hours which can be secured by discontinuing the water supply for 2 hours before vaccination.

*The dilution is to be adapted to the actual water consumption, which depends on chickens age and breed, air temperature and other factors.*

**1 mL of the preparation = 100 doses:**

The water consumption for vaccination can be set approximately using the following formula:

1 litre of water / 1 day of chicken age / 1,000 chickens

If dosing devices are applied the vaccine shall be added to potable water in 1:100 ratio. The vaccine shall therefore not be diluted to the full extent.

*Example:*

To vaccinate 10,000 chickens four day old the vaccine is to be administered in 40 litres of potable water to be drunk by the chicken within about 2 hours. The required 10,000 doses are contained in 100 mL of vaccine which is to be diluted to 400 mL which shall then be diluted with potable water in 1:100 ratio by the dosing device so that the final volume of potable water with vaccine is 40 litres.

### Spray application in hatcheries:

*Consult your spray device selection with the vaccine producer!*

The vaccine shall be diluted with potable water containing food dye (to enable visual control of the application) and sprayed on 1 day old chickens in the crate. The chickens should remain in the crate for at least 3 hours.

Recommended dilution:

- The total volume of fluid to be sprayed (1 crate / 100 chickens) is 20 mL, i.e. the vaccination dose is contained in 20 mL of solution [1 mL of vaccine (=100 doses) + 19 mL of potable water with dye].
- The chickens in every crate shall be sprayed with 1 mL of vaccine always for 100 chickens even if the crate contains less than 100 chickens.

### Withdrawal Period

None.

### Special Storage Precautions

Keep out of the reach and sight of children. Store in dry and dark place at +2 to +8 °C. Do not freeze. Short-term temperature rise (max. up to 40 °C) during transport does not reduce the vaccine efficacy.

### Shelf Life

9 months from the manufacturing date if kept in original packages and if the storage regulations are observed.

To be consumed immediately after dilution.

### Warning

The product shall not be used after the expiration date printed on the package.

### Special Warnings

The preparation is ineffective against coccidiosis in other animal species.

Dead animals sent to pathological and anatomic examination shall be accompanied with a document confirming they were vaccinated against coccidiosis so that any identification of oocysts cannot lead to misdiagnosis of coccidiosis.

Chickens at age of 13 days and older, depending on the breeding conditions, can suffer necrotic enteritis which can be misdiagnosed as coccidiosis.

It is prohibited to eat, drink and smoke when handling the preparation. It is recommended to wear gloves. The vaccine contains chloramines B, which may irritate skin or respiratory organs of sensitive persons.

### Special Precautions for Disposal of Unused Preparations of Waste, If Necessary

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

## Other Information

### Interactions

No interactions with other vaccines and medicaments than specified in the Contraindications section were observed.

No information on this vaccine compatibility with other vaccine is available, i.e. the preparation safety and efficacy when used together with other preparations has not been proved.

**Only for animals use.**

**The veterinary medicinal preparation to be supplied only on a prescription.**

### Packaging

1 x 10 mL (= 1,000 doses) and 1 x 50 mL (= 5,000 doses).

Screw-capped HDPE bottle, in cardboard box or shrink foil.

## Name and Address of Manufacturer and Marketing Authorisation Holder

BIOPHARM, Research Institute of Biopharmacy and Veterinary Drugs a.s.

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