

For Animal Use Only

IMPROVAC[®]

Boar Taint Vaccine for Male Pigs

Reg. No. G3643 Act 36/1947

For use by or under the control of a veterinarian only

INDICATIONS:

Improvac Boar Taint Vaccine for Male Pigs is used to control boar taint caused by the accumulation of taint substances (including androstenone and skatole) in entire male pigs. Taint substances that may already be present at the time of vaccination are rapidly metabolised allowing the entire male pig to be presented for slaughter at a heavier weight and / or older age with improved meat quality.

Through its inhibitory effect on GnRF (Gonadotrophin Releasing Factor) and testosterone production, **Improvac** Boar Taint Vaccine for Male Pigs also modifies the behaviour of peripubertal male pigs which may be evidenced by increased weight gain during the post-vaccination pre-slaughter period. This increased weight gain may also result in an increase in fat deposition.

STORAGE INSTRUCTIONS:

Store between 2 °C and 8 °C. Do not freeze. Protect from light.

COMPOSITION:

Improvac is prepared from an analogue of GnRF linked to a carrier protein. It is adjuvanted with a synthetic aqueous adjuvant to increase the level and duration of immunity. Each ml of vaccine provides 200 µg GnRF-protein conjugate. Thiomersal 0,1 mg/ml has been added as a preservative.

WARNINGS:

Only for use in male pigs.

Keep out of reach of children, uninformed persons and animals.

Accidental self-injection may affect fertility in both men and women and pregnancy. Not to be administered by women of childbearing age. Care should be taken to avoid accidental self-injection and needle-stick injury when administering this product. In the event of accidental self-injection, seek medical advice immediately.

Some swelling may develop at the site of vaccination, and in a small proportion of pigs, may last for several weeks before gradually subsiding.

This vaccine has been fully tested for potency, sterility and safety before issue but it must be stressed that the correct vaccination procedure in the field is equally important if secondary infection is to be prevented. Very occasionally, pathogenic organisms from the animal's skin or lying dormant in the animal's tissues are activated at the time of vaccination and are able to initiate a local infection at the site of injection. This may lead to stock losses, but fortunately is of rare occurrence.

Uncommonly, environmental sources of skatole can also contribute to taint, equally affecting females, castrates and entire male pigs. The major predisposing factor to this is absorption of skatole through the skin in a wet and soiled environment. Certain feedstuffs have also been implicated as a source of high skatole levels in the carcasses. The use of **Improvac** Boar Taint Vaccine for Male Pigs cannot counter this uncommon event.

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.

PRECAUTIONS:

Before use, read the cleaning and operating instructions for the Improvac vaccinator.

Sterilise all injection apparatus by boiling in water for 10 minutes before use. Avoid use of strong disinfectants on apparatus. Lubricate the vaccinator prior to use.

Maintain cleanliness at all times during vaccination. Care must be taken to avoid contamination of the vaccine, needle and internal parts of the syringe by contact with unsterilised surfaces or unwashed hands.

Keep needles sharp and clean. Replace frequently.

To avoid administering the vaccine into the neck muscles, use the shortest needle possible, not exceeding 15 mm in length. The needle should be directed perpendicular to the skin surface.

As far as possible, avoid injection of animals outdoors during wet weather or under dusty conditions. Avoid wet and soiled areas of skin.

This product must be injected only subcutaneously. Injection should be made through an area of clean, dry skin, taking precautions against contamination. Before injection, the proposed site of injection may be cleaned by swabbing with cotton wool soaked in an antiseptic solution, such as methylated spirits. Inject high on the neck behind the ear, i.e. under the skin on the side of the neck (just behind and below the base of the ear). Do not inject at any other site. Dispose of empty containers by wrapping in paper and putting in garbage. Discarded needles should immediately be placed in a designated and appropriately labelled container.

DOSAGE AND DIRECTIONS FOR USE:

General Directions: This product is contraindicated for use in breeding stock. Inadvertent vaccination of male breeding stock may affect subsequent fertility.

The dose on all occasions is 2 ml injected subcutaneously. The recommended site for injection is at the base of the neck, immediately behind the ear.

Primary Vaccination: Two doses of vaccine should be administered to entire male pigs at an interval of at least 4 weeks. The second dose should be given 4 to 5 weeks prior to slaughter.

The above recommendations on method and timing of vaccination, and injection site should be closely followed to ensure optimum effect and minimise carcasses damage.

Effective immunity (the development of anti-GnRF antibodies) develops approximately 10 to 14 days after administration of the second dose. The second dose at least 4 weeks after the first dose is essential to limit the further production of taint substances. The second dose of vaccine must be given 4 to 5 weeks prior to slaughter to control taint substances already present in the carcasses.

Entire male pigs intended for slaughter at 26 weeks of age will therefore receive their second dose of vaccine at 21 to 22 weeks of age, their first dose of vaccine having been given at 17 to 18 weeks of age or earlier.

Revaccination: None

PRESENTATION:

Improvac Boar Taint Vaccine for male pigs is available in 100 and 500 ml plastic multidose containers.

REGISTRATION HOLDER:

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