

## AquaVac Furovac

### Introduction



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### Presentation

An aqueous suspension. Each ml contains inactivated cells of *Aeromonas salmonicida* (Strain MT004) not less than  $1 \times 10^9$ ,

inducing RPS 70  $\geq 60\%$

\*RPS70= relative percent survival in vaccinates at 70% control mortality)

### Uses

Active immunisation of Atlantic salmon, at least 2g, to reduce mortality from furunculosis caused by *Aeromonas salmonicida*. The time for development of protective immunity will depend on the water temperature. 336 degree-days should be allowed between vaccination and anticipated exposure to infection (e.g. 28 days at a water temperature of 12°C).

Under laboratory conditions, after immersion vaccination of very small (2g) fish, a duration of immunity of up to 1080 degree days (90 days at 12°C) has been demonstrated, although the level of protection waned during this period (relative percentage survival 77% at 28 days, 42% at 90 days). No laboratory studies have been carried out to investigate duration of immunity after injection vaccination. Under field conditions, after injection vaccination of larger fish (35g) there is some evidence of duration of immunity of up to 4 months, and up to 6-9 months where immunity to vaccination is likely to have been boosted by natural challenge.

### Dosage and administration

Shake the bottle well before using.

#### *Immersion vaccination - fish from 2g weight*

The product is administered by immersion of the fish for 60 seconds in vaccine diluted 1 in 10 with hatchery water. (9 parts water to 1 part vaccine) This process can be repeated, oxygenating the solution between each use with comparable weights of fish, using the same tank of diluted vaccine until 100 kg of fish have been treated per litre of undiluted vaccine. Thus for fish 20 g in weight, 5000 fish may be vaccinated per litre of vaccine. The temperature of diluted vaccine should not differ from the temperature of the water in the holding tank by more than  $\pm 5^\circ$  C. The precise bacterial dose taken up by individual fish cannot be calculated.

#### *Injection vaccination - fish from 20g weight*

The vaccine must be administered using a multi-dose injection applicator incorporating a mechanism to prevent flush-back. This applies equally to hand-held and automatic systems. The product is administered by intra-peritoneal injection in the ventral area, just anterior to the pelvic fins. The dose is 0.1 ml per fish. The fish should be anaesthetised prior to vaccination, using an anaesthetic licensed for use on fish.

Vaccine should be used by injection within 5 hours of broaching the stopper. Any unused vaccine should be disposed of after this period. When administering by immersion, dilute the contents immediately after opening the container, and use diluted vaccine immediately.

### Contra-indications, warnings, etc

Do not vaccinate fish suspected of having furunculosis disease.

Do not vaccinate fish with Aquavac Furovac by injection more than once.

Only vaccinate healthy fish. Do not vaccinate fish during smoltification. Do not vaccinate fish at water temperatures below 6 C. No adverse effects seen after 2x overdose injection vaccination. Mortality of up to 6% has been seen after immersion vaccination with a 2x overdose, and growth retardation in very small (2g) fish. Do not mix with any other vaccine or immunological product. In the absence of specific data, the vaccine should not be administered to broodstock or fish intended as broodstock. No information is available on the safety and efficacy from the concurrent use of this vaccine with any other. It is therefore recommended that no other vaccines should be administered within 168 degree-days before or after vaccination with the product.

#### Adverse reactions

Slight growth retardation was observed after immersion vaccination of very small (2g) fish. If you notice any serious effects or other effects not mentioned above, please inform your veterinary surgeon.

#### Withdrawal Period

Zero days.

### Pharmaceutical precautions

Store and transport refrigerated (2°C to 8°C) Do not freeze. Protect from light.

Do not use after expiry date which is stated on the label.

Any unused product and waste materials (including vaccine containers and water derived from immersion vaccination)

should be disposed of in accordance with national requirements.

KEEP OUT OF REACH AND SIGHT OF CHILDREN.

FOR ANIMAL TREATMENT ONLY.

### Legal category

POM-V

### Packaging Quantities

1000ml

### Further information

Nil.

### Marketing authorisation number

Vm 00201/4203

### Significant Changes