

**ICTHIOVAC® LG Inactivated vaccine, lactococcosis in trout, in injectable emulsion. COMPOSITION PER DOSE:** Inactivated *Lactococcus garvieae*, TW-446.B3: strain RPS\* ≥ 75%. Adjuvant. \*RPS: Relative Percentage Survival. **INDICATIONS:** Trout: To prevent lactococcosis produced by *Lactococcus garvieae*. **ADMINISTRATION ROUTE:** Intraperitoneal: Shake before use. Once the bottle is opened, its content should be used in the next 5 hours. **DOSAGE: Trout:** 1 ds (0.1 ml)/fish. Size: from 20 g onwards. Vaccination of fish from 20 g onwards gives immunity from 28 days after vaccination up to 8 months. **WITHDRAWAL TIME:** 0 degrees-day. **SPECIAL PRECAUTIONS:** Fish should not be put under stress for 48 hours prior to vaccination and for the 15 days following vaccination. Do not vaccinate diseased fish or those which are carriers of any pathogenic microorganism. Water culture temperature for vaccination should be kept at the same or slightly lower temperature than the optimal one for the growth of the species. Store between +2 and +8 °C, protected from light. Do not freeze. **PACKAGING:** 5,000 ds bottle. **Under veterinary prescription.**

**ICTHIOVAC® PD Inactivated vaccine, pasteurellosis in gilthead sea bream, in suspension for immersion. COMPOSITION PER ML:** Inactivated *Photobacterium damsela piscicida*, DI-21: RPS\* ≥ 60%; Inactivated *Photobacterium damsela piscicida* It-1: RPS\* ≥ 60%. \*RPS: Relative Percentage Survival. **INDICATIONS: Gilthead sea bream:** To prevent pasteurellosis produced by *Photobacterium damsela piscicida*. **ADMINISTRATION ROUTE:** Bath (immersion). Shake before use. Once the bottle is opened, its content should be used the same day. **DOSAGE: Gilthead sea bream:** Prepare a solution by diluting the vaccine in sea water in the proportion (vaccine:water) of 1:10 or 1:500. *By short bath:* Introduce the fish into the vaccine solution, dilution 1:10 (vaccine:water), in 60-second baths. Do not exceed 0.5 kg of fish per litre of vaccine solution in each immersion. Discard the vaccine solution after 20 immersions. *By prolonged bath:* Add the vaccine directly to the culture tank keeping in mind the dilution factor 1:500 (vaccine:water). Prior to this, the water level should be lowered to a minimum. The vaccination period will last one hour. The original volume of water in the tank and its circulation should then be restored. Generally, it is advisable to vaccinate for the first time when the fish weigh between 1 and 2 g. **WITHDRAWAL TIME:** 0 degrees-day. **SPECIAL PRECAUTIONS:** It is necessary to maintain a strong aeration during the vaccination process, and keep an eye on the oxygen level in the vaccinal solution. Fish should not be put under stress for 48 hours prior to vaccination and for the 15 days following vaccination. Do not vaccinate diseased fish or those which are carriers of any pathogenic microorganism. Water culture temperature for vaccination should be kept at the same or slightly lower temperature than the optimal one for the growth of the species. Store between +2 and +8 °C, protected from light. Do not freeze. **PACKAGING:** 1 litre bottle. **Under veterinary prescription.**

**ICTHIOVAC® STR Inactivated vaccine, streptococcosis in turbot, in injectable suspensión. COMPOSITION PER DOSE:** Inactivated *Streptococcus parauberis*, RA-99.1: strain RPS\* ≥ 75%; Inactivated *Streptococcus parauberis*, AZ-12.1: strain RPS\* ≥ 75%. \*RPS: Relative Percentage Survival. **INDICATIONS: Turbot:** To prevent streptococcosis produced by *Streptococcus parauberis*. **ADMINISTRATION ROUTE:** Intraperitoneal. Shake before use. Once the bottle is opened, its content should be used the same day. **DOSAGE: Turbot:** 1 ds (0.1 ml)/fish. A single dose administered between 30-40 g protects throughout the entire production cycle. **WITHDRAWAL TIME:** 0 degrees-day. **SPECIAL PRECAUTIONS:** Fish should not be put under stress for 48 hours prior to vaccination and for the 15 days following vaccination. Do not vaccinate diseased fish or those which are carriers of any pathogenic microorganism. Water culture temperature for vaccination should be kept at the same or slightly lower temperature than the optimal one for the growth of the species. Store between +2 and +8 °C, protected from light. Do not freeze. **PACKAGING:** 5,000 ds bottle. **Under veterinary prescription.**

**ICTHIOVAC® TM Inactivated vaccine, tenacibaculosis in turbot, in injectable suspensión. COMPOSITION PER DOSE:** Inactivated *Tenacibaculum maritimum* LPV 1.7, serotype O2: RPS\* ≥ 75%. \*RPS: Relative Percentage Survival. **INDICATIONS: Turbot:** To prevent tenacibaculosis produced by *Tenacibaculum maritimum*. **ADMINISTRATION ROUTE:** Intraperitoneal. Shake before use. Once the bottle is opened, its content should be used the same day. **DOSAGE: Turbot:** 1 ds (0.1 ml)/fish. Size: from 20-30 g onwards. Vaccination gives immunity from 28 days after vaccination up to 6 months. **WITHDRAWAL TIME:** 0 degrees-day. **SPECIAL PRECAUTIONS:** Fish should not be put under stress for 4-5 days prior to vaccination and for the 15 days following vaccination. Do not vaccinate diseased fish or those which are carriers of any pathogenic microorganism. Water culture temperature for vaccination should be kept at the same or slightly lower temperature than the optimal one for the growth of the species. Store between +2 and +8 °C, protected from light. Do not freeze. **PACKAGING:** 5,000 ds bottle. **Under veterinary prescription.**

**ICTHIOVAC® VR Inactivated vaccine, vibriosis in turbot, in suspension for immersion. COMPOSITION PER ML:** Inactivated *Vibrio anguillarum*, serotype O1: RPS\* > 60%; Inactivated *Vibrio anguillarum*, serotype O2 α: RPS\* > 60%; Inactivated *Vibrio anguillarum*, serotype O2 β: RPS\* > 60%. \*RPS: Relative Percentage Survival. **INDICATIONS: Turbot:** To prevent vibriosis produced by *Vibrio anguillarum*. **ADMINISTRATION ROUTE:** Bath (immersion). Shake before use. Once the bottle is opened, its content should be used the same day. **DOSAGE: Turbot:** Prepare a solution by diluting the vaccine in sea water in the proportion (vaccine:water) of 1:10 or 1:500. *By short bath:* Introduce the fish into the vaccine solution, dilution 1:10 (vaccine:water), in 60-second baths. Do not exceed 0.5 kg of fish per litre of vaccine solution in each immersion. Discard the vaccine solution after 20 immersions. *By prolonged bath:* Add the vaccine directly to the culture tank keeping in mind the dilution factor 1:500 (vaccine:water). Prior to this, the water level should be lowered to a minimum. The vaccination period will last one hour. The original volume of water in the tank and its circulation should then be restored. Generally, it is advisable to vaccinate for the first time when the fish weigh between 0.5 and 2 g. Revaccinate 4 weeks later. **WITHDRAWAL TIME:** 0 degrees-day. **SPECIAL PRECAUTIONS:** It is necessary to maintain a strong aeration during the vaccination process, and keep an eye on the oxygen level in the vaccinal solution. Fish should not be put under stress for 48 hours prior to vaccination and for the 15 days following vaccination. Do not vaccinate diseased fish or those which are carriers of any pathogenic microorganism. Water culture temperature for vaccination should be kept at the same or slightly lower temperature than the optimal one for the growth of the species. Store between +2 and +8 °C, protected from light. Do not freeze. **PACKAGING:** 1 litre bottle. **Under veterinary prescription.**



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The **Reference**  
in **Prevention**  
for **Animal Health**

WELCOME TO THE  
**WATERPROOF**  
**PREVENTION**



# HIPRA, the global reference in prevention

HIPRA is a **veterinary pharmaceutical** company dedicated to the research, production and marketing of products for Animal Health. We are **a leading company in Animal Health**, especially in Biologicals. Our history spans more than half a century. We currently occupy one of the top positions amongst pharmaceutical companies producing Biologicals for the veterinary industry worldwide.

At HIPRA we are convinced that the future lies in **prevention**. The **majority of the R&D budget** is allocated for **Biological products**. **HIPRA products are recognized for their high quality, safety and efficacy**. Our objective is that they also provide differential advantages for customers.



Our investigation is focused in innovative and pioneering products in therapeutic areas of the greatest interest for professionals of Animal Health and production.

We have our own **diagnostic centers** -DIAGNOS- in three continents, through which we offer Technical Service to our clients.



## WELCOME TO THE WATERPROOF PREVENTION

**ICTHIOVAC®** is our range of biologicals products for aquaculture.

We have 5 inactivated vaccines indicated for trout, sea bream and turbot.



**ICTHIOVAC®**

**LG**



To prevent lactococcosis produced by *Lactococcus garvieae*.

Inactivated vaccine, lactococcosis in trout, in injectable emulsion.



**ICTHIOVAC®**

**PD**



To prevent pasteurellosis produced by *Photobacterium damsela piscicida*.

Inactivated vaccine, pasteurellosis in gilthead sea bream, in suspension for immersion.



**ICTHIOVAC®**

**STR**



To prevent streptococcosis produced by *Streptococcus parauberis*.

Inactivated vaccine, streptococcosis in turbot, in injectable suspension.



**ICTHIOVAC®**

**TM**



To prevent tenacibaculosis produced by *Tenacibaculum maritimum*.

Inactivated vaccine, tenacibaculosis in turbot, in injectable suspension.



**ICTHIOVAC®**

**VR**



To prevent vibriosis produced by *Listonella angillarum* (*Vibrio Angillarum*).

Inactivated vaccine, vibriosis in turbot, in suspension for immersion.

## diagnos aqua

**“Waterproof” prevention** HIPRA not only offers a range of quality products, but also offers **“Diagnos aqua”**, a fast and reliable diagnosis and complete assistance to manage the most important infectious diseases in aquaculture.