



Please read this user information carefully

# LEVAMICIL

for the treatment of ornamental fish in freshwater and marine aquaria

## manaus-aquarium

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### Veterinary medicine for animal (ornamental fish) treatment only

**Route of administration:** solution for adding to aquarium water.

### Composition of active ingredients in mg per ml:

levamisole hydrochloride (Levamisoli hydrochloridum) 60.

### Pharmaceutical Company:

Manaus-Aquarium, Rügenerstrasse 73, D-64319 Pfungstadt, Germany

### Areas of application:

Nematodes are mainly found in the intestine and abdomen of Fish. **LEVAMICIL** is highly effective against diseases caused by worms from the camallanidae (e.g.: viviparous worms such as *Camallanus cotti*), trichuridae (e.g. egg-laying worms such as *Capillaria sp.*), and oxyuridae (e.g. intestinal worms in discus) families. The intestinal wall of the affected fish gets irritated by the parasitic worms, respectively gets perforated, resulting in infections and death of the affected animals. Through the mass occurrence of these parasites as food competitor, nutrients are thus removed from the fishes body and an insufficient supply of the infected animals is the result. Fish that suffer from Nematodes become emaciated and stunted.

### Disease symptoms:

Indications of disease caused by the abovementioned parasites are red worms hanging from the anus or on the stomach wall of the fish, white, slimy faeces, darkening of the skin, distended stomachs of the fish afflicted as well as being startled easily. In a massive attack by *Capillaria sp.* the abdominal region of the fish

**LEVAMICIL.**

is greatly distended. In general, diseased fish stop feeding in the advanced stage of infection by nematodes. It is important to treat the fish as quickly as possible when the abovementioned symptoms are spotted so that any further weakening of the animals by the parasites is prevented. If possible, a microscopic examination should be performed to confirm the diagnosis.

### Precautionary measures:

Pay attention to the water quality in your aquarium and reduce the organic pollution of the aquarium water from biological and chemical by-products by changing the water regularly. Very dirty filters should be cleaned before treatment, always keep the aquarium filter running during treatment! As with all treatments, the fish must be monitored regularly and carefully during the course of treatment in order for treatment to be broken off by a major water change should complications arise deriving from the specific set-up of the user or errors in use, which cannot be predicted.

### Interaction with other medicines and other forms of interaction:

**LEVAMICIL** should not be used in combination with other medications. If your fish have been treated with another medication beforehand then a major water change must be undertaken before treatment. During treatment, UV lamps must always be turned off and oxidators removed (hydrogen peroxide). Whilst treating the aquarium with **LEVAMICIL** no active filter agents (e.g.: activated carbon, phosphate remover, etc.) may be used in the filter in order to prevent reactions with bonded contaminants. Ion-exchangers (e.g. for removing nitrates, etc.) must be removed from the water circulation system of the aquarium during treatment with

**Dosage and application:**

During treatment, the aquarium's filter must be switched on and a good circulation of the water in the tank must be ensured through airstones and let the filter outlet provide optimal movement of the water surface so that the medication can be optimally distributed throughout the aquarium. It is important that you give the right dose of **LEVAMICIL**, to do this you need to know the precise size of your aquarium. For a rectangular tank the following applies:

$$\frac{\text{height(cm)} \times \text{width(cm)} \times \text{depth(cm)}}{1000} = \text{litre}$$

If your aquarium is of a special design (e.g. polygon, domed panes of glass, stones reduce the volume, etc.), find out the cubic capacity of your aquarium from the manufacturer. The size of the tank being treated should not be greater than 1000 litres in volume. The water temperature should not exceed 29°C. To rid off your fish from Nematodes takes two steps of treatment.

Use the measuring cup contained in the **LEVAMICIL** pack and distribute the medication well by stirring on the surface.

Dosage:

1 ml to 20 litres aquarium water

After 6 days the 1<sup>st</sup>. treatment is completed and 80% of the water in the aquarium should be changed. Start a second treatment 10 days after this water change.

Second dosage:

1 ml to 20 litres aquarium water

Afterwards preform a water change of 80% again. As with any medication, the recommended dose should not be exceeded. Animals weakened by disease may react more sensitively.

In rare cases, the aquarium water can become cloudy during the days it is being treated with **LEVAMICIL**. This is due to a proliferation of bacteria in the water and the associated depletion of oxygen. In these cases treatment is to be broken off with a major water change where 80% of the water is changed. After successful treatment with **LEVAMICIL**, **DIPLORAL** should be added to the aquarium water of the treated fish for a few weeks afterwards to ensure a rapid balance is achieved, replenishing the minerals lacking in the organs and tissues of the fish.

**Contraindications and side-effects:**

**LEVAMICIL** is a new product and is well tolerated by most species of freshwater and seawater fishes. No studies have yet been carried out on the treatment of Chondrichthyes with **LEVAMICIL**. Out of caution, we advise not to use **LEVAMICIL** with these fishes. There are no known side effects. The aquarium keeper is encouraged to inform a veterinary surgeon or pharmacist and the manufacturer of any so far unknown side effect.

**Target Species:**

Ornamental Fish. For animal treatment only. Do not use on animals intended for consumption.

**Storage instructions and Disposal advice:**

Keep out of reach of children! Store in the original packaging and protect from light and heat, also store in a frost-free location. The medication must not be used after the expiry date. **LEVAMICIL** may stain if spilt. Shelf life after the immediate packaging has been opened for the first time: 12 months. Wash away product remainders with plenty of water. Dispose completely empty packaging in the household refuse.

Before using, please note that we provide the latest information on our product **LEVAMICIL** and updated pack inserts for downloading on the internet site [www.manaus-aquarium.de](http://www.manaus-aquarium.de) on the use of **LEVAMICIL**.

This veterinary medicine is marketed in accordance with Schedule 6 of the Veterinary Medicines Regulations - Exemptions for small pet animals. Authorization number: 2115-FG.

Packaging: 100 ml for 2000 litres / 439 UK gallons. Also available in 300 ml and 500 ml.