

# Lorix® Plus

Permethrin + Crotamiton

## Description

**Lorix® Plus** is a combination of Permethrin which is a photostable synthetic pyrethroid that possesses a broad spectrum of insecticidal activity and low mammalian toxicity and Crotamiton which is used to treat scabies infection. It is also used to relieve the itching of certain skin conditions.

## Mode of action

The insect rapidly absorbs Permethrin via mouth, respiratory tract or the intact cuticle. Although the primary target tissue is the nervous system, insects are not killed by dysfunction of a single organ but by a complex series of reactions in various organs, such as metabolic exhaustion and paralysis of the nervous system. Permethrin primarily affects sodium channels in the nerve membrane and causes prolongation of the transient increase in sodium permeability associated with membrane depolarization. After treatment with permethrin, the sodium current is evoked by a step depolarization of the membrane. This leads to sensory hyperexcitability, incoordination and prostration. It is assumed that mode of action against mites is similar.

## Pharmacokinetics

The only approved route of administration is the topical route and there are few human data available on systemic exposure or kinetics following permethrin application to the skin. Some presystemic metabolism occurs in skin. Less than 0.5% of applied permethrin is absorbed during the first 48 hours. Absorbed permethrin is rapidly metabolized by ester hydrolysis, most likely in the liver and the products are excreted primarily in the urine.

Crotamiton penetrates rapidly into human skin. Low but measurable concentrations of crotamiton are found in plasma, with a maximum level after 4-10 hours, declining rapidly thereafter.

## Composition

**Lorix® Plus 70 ml lotion:** contains permethrin BP 5% and Crotamiton BP 10%.

## Indications

**Lorix® Plus** (Permethrin and Crotamiton) lotion is indicated for the treatment of scabies and crab lice infestations (Pediculosis). Besides, it is used for the relief of itching and skin irritation caused by, for example sunburn, dry eczema, itchy dermatitis, allergic rashes, hives, nettle rash, chickenpox, insect bites and stings, heat rashes and personal itching.

## Dosage and administration:

### Adults (including the elderly):

After the patient has taken a warm bath, the skin should be well dried and **Lorix® Plus** rubbed into the entire body surface (excluding the face and scalp) until no traces of the preparation remain visible on the surface. The application should be repeated once daily, preferably in the evening, for a total of 3-5 days. Depending on the response, special attention should be paid to sites that are particularly susceptible to infestation by the mites (e.g. interdigital spaces, wrists, axillae and genitalia). Areas where there is pus formation should be covered with a dressing

impregnated with **Lorix® Plus**. While the treatment is in progress the patient may take a bath shortly before the next application. After completion of the treatment, a cleansing bath should be taken followed by a change of bed linen and underclothing.

### Children:

Application as described for adults but in children under 3 years of age **Lorix® Plus** should not be applied more than once a day.

**Treatment procedure:** Before application of **Lorix® Plus** lotion the skin should clean, cool and dry. **For adults and children over 2 years:** Apply the lotion to the whole body from the neck down, rubbing lightly into the skin until the lotion disappears. It is important to include all skin surfaces, such as between the fingers and toes, under the nails and on the soles of the feet. **For babies under 2 years:** Apply to the face, neck, ears and scalp as well, only avoiding the areas immediately around the eyes and mouth. Leave lotion on for at least 8 hours, before washing off. Reapply to any area that may be washed during the 8 hours treatment time (such as after washing the hands).

## Contraindications

**Lorix® Plus** (Permethrin and Crotamiton) lotion is contraindicated in individuals with a known allergy to permethrin, its components, other pyrethroids or pyrethrins.

## Side effects

Contact dermatitis with mild erythematous vesicular lesions and papules has occasionally been reported.

## Use in pregnancy and lactation

There is no experience to judge the safety of Permethrin and Crotamiton in pregnancy, therefore it is not recommended during pregnancy, especially in the first three months. It is not known whether the active substance passes into breast milk. Nursing mothers should avoid applying it in the area of the nipples.

## Precautions

Permethrin is irritant to the eyes. Avoid contact of this lotion with the eyes. When applying this lotion to the face in children, care should be taken when applying to areas close to the eyes and mouth, where it may be licked off. Nursing staff who routinely comes in contact with the lotion may wear gloves to avoid any possible irritation to the hands.

## Drug interactions

None is known.

## Storage

Keep out of reach of children. Store in a dry place, below 25°C temperature and protected from light.

## Packaging

**Lorix® Plus 70 ml lotion:** Each bottle contains 70 ml lotion.



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