

# Letol

## Levosalbutamol Sulphate

### Presentation

**Letol Tablet:** Each tablet contains Levosalbutamol Sulphate INN equivalent to Levosalbutamol 2 mg.

**Letol Syrup:** Each 5 ml syrup contains Levosalbutamol Sulphate INN equivalent to Levosalbutamol 1 mg.

### Description

Levosalbutamol is a single isomer  $\beta_2$  agonist that differs from racemic salbutamol by elimination of (S)-salbutamol. Levosalbutamol is an effective bronchodilator whose primary mechanism of action is unimpeded by (S)-salbutamol. Thus, when compared with racemic salbutamol, clinically comparable bronchodilation can be achieved with doses that substantially lessen  $\beta$  mediated side effects. Levosalbutamol produces bronchodilatation through stimulation of  $\beta_2$  adrenergic receptors in bronchial smooth muscles, thereby causing relaxation of bronchial muscle fibres.

### Indication

Levosalbutamol is indicated for the treatment and prevention of bronchospasm in adults, adolescents and children 6 years of age and older with reversible obstructive airway diseases.

### Dosage & Administration

Adult & adolescents over 12 years: *1-2 mg, three times daily.*

Children (6-11 years): *5 ml (1 mg), three times daily.*

Children (2-5 years): *Up to 0.1 mg/kg of body weight, three times daily.*

### Contraindication

Levosalbutamol is contraindicated in patients with a history of hypersensitivity to Levosalbutamol or any of its components.

### Side Effect

Hypocalcaemia, palpitation, fine tremors of the skeletal muscle and muscle cramps may occur. The other likely side effects are nausea, vomiting, burning substernal or epigastric pain and diarrhoea.

### Precaution

Particular caution is advised in acute severe asthma as this effect may be potentiated by hypoxia and by concomitant treatment with xanthine derivatives, steroids and diuretics. Serum potassium levels should be monitored in such situations.

### Use in Pregnancy & Lactation

**Pregnancy:** The drug should be used during pregnancy only if the potential benefit justifies the potential risk of the fetus.

**Lactation:** It is not known whether levosalbutamol is excreted in human milk. Caution should be exercised when oral levosalbutamol is administered to nursing women.

### Drug Interaction

Other short-acting sympathomimetic bronchodilators or epinephrine should be used with caution with levosalbutamol. If additional adrenergic drugs are to be administered by any route, they should be used with caution to avoid deleterious cardiovascular effects.

### Overdose

The expected symptoms with over dosage are those of excessive  $\beta$  adrenergic stimulation and the symptoms listed under side effects. In the event of serious poisoning, the stomach should be emptied and if necessary, a  $\beta$  blocker administered with caution in patients with a history of bronchospasm.

### Commercial Packaging

**Letol Tablet:** Each box contains 10 x 10 tablets in blister strips.

**Letol Syrup:** Each bottle contains 100 ml syrup.

Manufactured by:



**Globe Pharmaceuticals Ltd.**

Noakhali, Bangladesh.