

Mescof **LS** Syrup 100ml

Levosalbutamol + Ambroxol Hcl+ Guaiphenesin

Composition

Each 5 ml Syrup contains in amber color bottle

Levosalbutamol Sulphate IP

Equal to Salbutamol1 mg

Ambroxol hydrochloride IP.....30 mg

Guaiphenesin IP.....50mg

Mix Fruit Flavor in Sorbitol base

Dosage and strength

Available in 100 ml syrup in amber color bottle contains Levosalbutamol + Ambroxol Hcl+ Guaiphenesin in mixfruit flavor & sugar free formulation.

Therapeutic Indications

MESCOF-LS Syrup is indicated for the treatment of productive cough associated with bronchospasm in conditions such as bronchitis and bronchial asthma as well as all conditions associated with tenacious mucus, wheezing and chest congestion.

DESCRIPTION

Levosalbutamol is a selective β -2-adrenoceptor agonist. At therapeutic doses it acts on the β -2-adrenoreceptors of bronchial muscle with little or no action on the α 1-adrenoreceptors of cardiac muscle. Levosalbutamol (LEV) has approximately 2 fold greater affinity than racemic salbutamol (RAC) for the β 2 adrenergic receptor and approximately 100 fold greater binding

affinity than S- Salbutamol. Levosalbutamol stimulates the production of intracellular cyclic-AMP, enhancing the binding of intracellular calcium to the cell membrane and endoplasmic reticulum, resulting in bronchodilation. It also enhances mucociliary clearance.

Activation of the β -2-adrenoreceptors opens ATPase channels and drives potassium from the extracellular to the intracellular space. This both decreases extracellular hyperkalemia and increases intracellular potassium, so decreasing the chance of arrhythmia.

Ambroxol hydrochloride is a mucolytic agent, which liquefies thick, tenacious sputum. Ambroxol dissolves mucopolysaccharide fibers and thus reduces viscosity of sputum. It also improves mucocilliary clearance of secretions.

Guaiphenesin is an expectorant. It increases the output of sputum and bronchial secretions by reducing adhesiveness and surface tension. By increasing the volume of bronchial secretions, it reduces the viscosity of tenacious sputum. The increased flow of less viscid secretions also promotes ciliary action.

MESCOF-LS Syrup is an ideal combination. The ingredients are well absorbed after oral administration and provide prompt relief.

CONTRAINDICATIONS

MESCOF-LS Syrup is contraindicated in patients with hypersensitivity to any ingredient of the formulation.

PRECAUTIONS

While treating cough as a symptom, it is important to make every effort to determine and treat appropriately the underlying cause, such as a specific infection.

Caution should be observed while prescribing **MESCOF-LS Syrup** to children with hypertension, cardiovascular disease, uncontrolled juvenile diabetes mellitus, hyperthyroidism, seizures or in patients who are unusually hypersensitive to sympathomimetic amines.

DRUG INTERACTIONS

Hypokalemia with high doses of β_2 -agonists may result in increased susceptibility to digitalis induced cardiac arrhythmias. Hypokalemia may be enhanced by concomitant administration of aminophylline or other xanthines, corticosteroids or by diuretic therapy.

Other sympathomimetic bronchodilators or epinephrine should not be used concomitantly with salbutamol, since their combined effect on the cardiovascular system may be deleterious to the patient.

Salbutamol should be administered with caution in patients being treated with monoamine oxidase (MAO) inhibitors or tricyclic antidepressants, since the action of salbutamol on the vascular system may be potentiated.

ADVERSE REACTIONS

The adverse reactions to Levosalbutamol are similar in nature to those of other sympathomimetic agents and include nervousness and tremor. The frequency of these side effects appears to diminish with continued therapy. Other commonly reported reactions include increased heart rate, palpitations, dizziness, headache, drowsiness, vomiting, nausea, sweating and muscle cramps. These reactions are generally transient and usually do not require treatment

With ambroxol gastrointestinal side effects may occur occasionally and a transient rise in serum aminotransferase values has been reported.

Gastrointestinal discomfort has occasionally been reported with Guaiphenesin.

DOSAGE & ADMINISTRATION

The usual recommended dose of **MESCOF-LS** in children is as under: 2-

Adults	:	10 ml	twice
daily			
6-12 years	:	5 ml	twice daily
6 years	:	2.5 ml	twice
daily			

PRESENTATION

MESCOF-LS Syrup is Sugar free also available in mix fruit flavor.

MESCOF-LS Syrup is available bottle of 100 ml.