

# INFLADASE/INFLADASE FORTE

## Composition

Each **INFLADASE/INFLADASE FORTE Tablet** contains:

Serratiopeptidase

5 mg/10 mg

## Pharmacology

Serratiopeptidase is an enzyme derived from the bacteria belonging to genus *Serratia*. The *Serratia* E15 species of bacteria was originally discovered in the gut of silkworm. *Serratia* E15 produces large quantities of this enzyme. Today, serratiopeptidase is produced by fermentation technology.

**INFLADASE/INFLADASE FORTE** binds to  $\alpha$ 2-macroglobulin in the blood in a 1:1 ratio. This helps to mask its antigenicity but retains its enzymatic activity. Levels of serratiopeptidase are slowly transferred to the exudates at the site of infection and inflammation and gradually blood levels decline.

The mechanism of action of **INFLADASE/INFLADASE FORTE** appears to be hydrolysis of histamine, bradykinin and serotonin, and a proteolytic and fibrinolytic effect. Primarily this is achieved by dissolving the complement (specific proteins responsible for inflammation) and increasing the plasmin activity by inhibiting the plasmin inactivators.

By the aforementioned mechanisms, **INFLADASE/INFLADASE FORTE** reduces capillary permeability induced by histamine, bradykinin and serotonin; breaks down abnormal exudates and proteins; facilitates the absorption of decomposed products through blood and lymphatics. Thus, **INFLADASE/INFLADASE FORTE** promotes wound healing and repair, and restore the skin temperature of the inflamed area, burn or trauma to normal.

The addition of metal ions like zinc, manganese and cobalt to **INFLADASE/INFLADASE FORTE** stabilizes and ensures the efficacy of the formulation.

Serratiopeptidase has been shown to be absorbed from the digestive tract. On oral administration, it is absorbed unchanged into the systemic circulation, from where it penetrates into all the tissues. It reaches higher concentrations in the inflamed tissues. It attains peak levels in one hour.

## Indications

**INFLADASE/INFLADASE FORTE** is indicated for,

- Resolution of inflammation due to bone and soft tissue injury.
- Reducing inflammation associated with episiotomy and perineal laceration. It reduces breast engorgement in puerperium. Helps to resolve postpartum

haematomas and pregnancy related thrombophlebitis. It is also indicated as adjuvant after hysterectomy.

- Hastening absorption of subconjunctival haemorrhage, hyphaemas, and vitreous hemorrhage. In post-operative cases shorten convalescence period. Adjuvant therapy with antibiotics in ocular infections like keratitis, uveitis and endophthalmitis.
- Resolution of inflammatory oedema in acute infections like tonsillitis, pharyngitis, laryngitis and pain following tonsillectomy, also resolves mucus and pus in sinusitis, and otitis media.
- As adjuvant in chronic obstructive pulmonary disease, bronchitis, pulmonary tuberculosis, bronchial asthma, septic abortion, pelvic inflammatory disease and salpingitis,
- Controlling haematoma and pain following tooth extraction, odontectomy, traumatic, alveolar or tooth fractures. Adjuvant in infections such as alveolar abscess and periodontitis.

## **Precautions**

Careful administration of **INFLADASE/INFLADASE FORTE** should be made to patients with coagulation disorders, severe hepatic and renal disturbances.

## **Drug Interactions**

Patients on anticoagulant therapy should be observed carefully because of possible potentiation of anticoagulant effects by **INFLADASE/INFLADASE FORTE**.

## **Adverse Effects**

Serratiopeptidase has few adverse effects on oral administration. Its use may cause occasional hypersensitivity, diarrhoea, nausea, vomiting, epistaxis and haemoptysis.

## **Dosage & Administration**

The usual recommended dose of **INFLADASE/INFLADASE FORTE** is 5-10 mg *tid*.

## **Presentation**

**INFLADASE/INFLADASE FORTE** is available in a strip of 10 tablets.