



## Clearizyme (formerly Flexizyme)

### Indications:

- Any inflammatory process
- Sports injuries
- Pain
- Contusions
- Post-surgical healing
- Soft tissue trauma/inflammation
- Arthritis
- Sprains & strains
- Bruising
- Fibrosis

*Clearizyme is a powerful, systemic and fibrolytic enzyme blend.*

Clearizyme is formulated specifically for decreasing both acute and chronic inflammatory processes. This powerful combination of proteolytic enzymes from three different sources: plant (bromelain, papain), fungal (peptizyme) and animal (pancreatin) act synergistically to reduce swelling, bruising, and discomfort associated with inflammation due to trauma (especially sprains and strains), surgical procedures, and arthritis (OA and RA). This formula includes unique enteric coated Pancreatin and Peptizyme SP® which protects these two enzyme ingredients from being inactivated as they pass through the acidic medium of the stomach.

Bromelain is a concentrated extract from pineapple (*Ananas comosus*) that primarily acts as an anti-inflammatory agent that is helpful in healing minor injuries, particularly sprains and strains, muscle injuries, as well as the pain, swelling, and tenderness that accompany sports injuries.

Bromelain has been found to be effective in reducing pain and swelling in patients with knee pain or rheumatoid arthritis. In addition to treating trauma and sports injuries, bromelain may also be useful in the adjunctive treatment in mammary carcinoma by increasing immunocytotoxicity.

Papain is the enzyme mixture extracted from the latex of the tropical papaya (*Carica papaya*). Papain is therapeutically active between pH 3 and 10 making it a valuable adjunct in treating dyspeptic complaints. Moreover, as a proteolytic enzyme it has been found to be of effect in the treatment of numerous disorders including chronic gastritis and helminthic infections.

Pancreatin is an animal based, long-lasting, broad-spectrum enzyme containing amylase, lipase, protease, trypsin and chymotrypsin, all of which play an integral part of the digestion of proteins, fats, and carbohydrates. Research has shown that treatment with oral enzyme preparations containing trypsin, chymotrypsin, and papain have reduced the adverse effects encountered by patients undergoing radiotherapy for both head, neck and uterine cancers.

Proteolytic enzymes cleave other proteins and under normal physiological conditions, proteolytic enzymes maintain homeostasis by breaking down aberrant proteins that may arise during disease processes. Oral therapy with proteolytic enzymes produce analgesic and anti-inflammatory effects and reduces posttraumatic and postoperative edema.

Peptizyme SP® (Serrapeptidase) has been cited as the strongest fibrolytic enzyme available and is more potent than using chymotrypsin on its own. It is also heat and acid stable.



### Composition: One capsule contains:

#### Ingredients:

Bromelain (1800 MCU/gm) .....	45 mg
Papain USP (6000 PU/mg).....	60 mg
*Pancreatin (USP 6X) .....	150 mg
- Trypsin (100-150 units/mg)	
- Chymotrypsin (15-50 units/mg)	
Peptidase (100,000 HUT/gm) .....	35 mg
*Peptizyme SP® (100,000 u/gm).....	50 mg

#### Mode of Action:

Anti-inflammatory, fibrinolytic, proteolytic, prevent platelet aggregation, induce cytokine production.  
 Anti-inflammatory, proteolytic, antimicrobial, antiulcerative.  
 Enzyme with proteolytic, amylolytic and lipolytic properties.  
  
 Breaks down peptides.  
 Caseinolytic (fibrinolytic) agent.

**Side Effects:** Can cause gastrointestinal upset.

**Contraindications:** Do not take during pregnancy or lactation. Do not use in individuals with gastric or duodenal ulcers or with known or suspected sensitivity to any of the above listed ingredients. Enzymes should not be employed immediately before or after surgery on hemophiliacs.

Do not use concurrently with anticoagulant medication such as Warfarin or anti-platelet aggregating medication such as Plavix.

**Adult Dosage:** Take 2 capsules 2 - 3 times a day (between meals) or as directed by a health care practitioner.

*These enzyme formulas have been specially formulated and manufactured for Biomed by Specialty Enzymes and Biochemicals Co.*