



Deerland Serratiopeptidase

Description

Serratiopeptidase is an enzyme derived from bacteria belonging to genus *Serratia* sp. Serratiopeptidase is a “proteolytic” or protein digesting enzyme

Activity

Serratiopeptidase = 120,000 U/g

The activity of Serratiopeptidase is measured based on a 20 min. hydrolysis of casein substrate at 37°C and pH 9.0. One unit of Serratiopeptidase is equivalent to one micro gram of Tyrosine that one milligram of Serratiopeptidase produces from substrate Casein for one minute.

Physical Properties

Form	Fine dry powder
Color	Off white to light Brown
Odor	Free of offensive odor
Solubility	Readily soluble in water

Properties

Optimum pH	8.5-9.5
pH stability	5.0-6.0 (37°)
Optimum temperature	37°C
Thermal stability	30-50°C (pH 9.0)



Use Level

This enzyme mixture can be used in a variety of applications. By appropriately choosing processing conditions, e. g. time, temperature, pH, the effectiveness of each particular enzyme can be maximized.

Applications

Serratiopeptidase can help the removal of dead tissue (such as blood clots, arterial plaque), increase circulation and help in the relief of inflammation and strengthening of joints. Serratiopeptidase can help speed up post operative healing times. Serratiopeptidase can also provide relief from allergy symptoms such as swelling of the nasal passage,

Storage

In sealed containers, under cool, dry conditions, the product will maintain the declared activity for at least 12 months. Storage life can be extended by storing under refrigeration at 5C.

Packaging

Deerland Serratiopeptidase is available in 25-kg fiber drums with ring seal and lined with a polyethylene bag.

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