



VOLMAC
SYNERGY THROUGH INNOVATION

γ - Poly Glutamic Acid

Description

γ -PGA is a free-flowing off white powder.

Poly Glutamic Acid is a water soluble, biodegradable, non-toxic biopolymer produced by microbial fermentation.

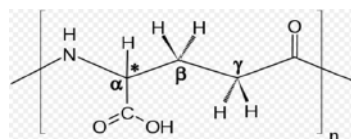
Product identification

Chemical name: γ -Polyglutamic Acid

CAS: 25513-46-6

Empirical formula: $(C_5H_9NO_4)_x$

Molecular weight available: 100 000 – 2 000 000



Specification

Appearance: Fine free flowing powder

Colour: Off white

γ -poly glutamic acid content: 25%min.

Application

Gamma Polyglutamic acid is a homopolymer amino acid formed by linking glutamic acid monomers through amide bonds. It has the advantages of environmental friendliness, excellent chelating adsorption capacity, water absorption, moisture retention capacity, as well as good biodegradability. The synergistic effects when used in conjunction with fertilisers exhibit five significant application effects: water retention, fertilizer retention, yield increase, stress resistance and crop quality improvement.

When present in the soil a film will form on the surface of the root, which not only has the function of protecting root hair; but is the best transportation platform for close contact nutrients and water. It can aid in effectively improving the dissolution, storage, transportation, and absorption of fertilisers. Crops can more effectively absorb phosphorus, calcium, magnesium and other trace elements present. It promotes the development of increased crop roots.

Legal

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