(주) 썬화인글로벌
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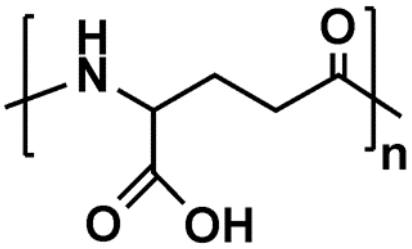
Technical Data Sheet

SFG PGA Series

Sodium Polyglutamate
CAS# 28829-38-1



Description

Gamma-poly-glutamic acid (γ-PGA) is a natural, multi-functional, biodegradable biopolymer produced from L-glutamic acid through a fermentation process with a Bacillus subtilis. PGA is a water-soluble homo-polyamide consisting of D- and L-glutamic acid monomers connected by amide linkages between α-amino and γ-carboxyl groups. It has high water absorbability and moisturizing effect with multiple functionalities including Long-lasting moisturizing effect and inhibition on Melanin Biosynthesis.

Specification

Item	Specification		
	SFG PGA(HM)	SFG PGA(LM)	SFG PGA(Oligo)
Molecular Weight (K Da)	700~1,000	70~100	5~10
Intrinsic viscosity, [η]/(dL/g)	1.0~5.0	0.1~1.0	<0.1
Appearance	White or off-white powder or granules		
Assay (%)	≥ 92.0		
pH (1% soln.)	5.0~7.5		
Absorbance (4%, 400nm)	≤0.12		
Heavy metals(Total as Pb, mg/kg)	≤ 10		
Loss on drying (%)	≤10		
Total Plate Count (cfu/g)	≤100		
Fecal coliforms	Negative		
Pseudomonas Aeruginosa	Negative		
Staphylococcus aureus	Negative		

Storage Store in a cool, well-ventilated area and keep in a tightly closed container.

Shelf Life 2 years

3, Sangeong 1-gil, Osong-eup, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, KOREA [28161]
Tel. +82-43-218-0994~5 Fax +82-43-218-0996