

Technical Datasheet

SAT-PGA- LM / HM

INCI-name: Sodium Polyglutamate

CAS-no.: 28829-38-1

EC-Nr: 310-127-6

Item	Specification
Appearance	White to off- white powder
Assay (Na+ - PGA)	≥ 90%
Intrinsic viscosity , [η]/ (dL7g)	0.1~1.0 (LW) 1.0~5.0 (HW)
LD (Loss on Drying)	10% max.
pH (1% solution)	5.0~7.5
Clarity, OD400 (4% aq.sol'n,400nm)	0.07 max.
Heavy Metals /total as Pb, mg/kg)	20 ppm max.
TPC (cfu/g)	100 max.
E.coli	Negative in 25g
Salmonella	Negative in 25g

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.