

DESCRIPTION

INCI Name: γ -Polyglutamic acid

CAS NO.: 25513-46-6

Molecular Formula: $(C_5H_7NO_3)_nNa$

Natori PGA 92 (700kDa) is a safe and natural and biodegradable multifunctional biopolymer produced via fermentation of L-glutamic acid with *Bacillus subtilis*. It is a water-soluble homo-polyamide consisting of D-glutamic acid and L-glutamic acid monomers connected by amide linkages between α -amino and γ -carboxyl groups. Its molecular weight is usually between 100 – 1000 kDa. It is applicable to a wide range of products including home and personal care, food, healthcare, water treatment and agriculture. When applied in cosmetic products, a dosage of 0.05% - 1.00% is recommended. In the food industry, Natori PGA 92 (700kDa) can function as a thickener, stabilizer, texture enhancer, or nutrition supplement.

TYPICAL PROPERTIES

| Items | Specifications |
|-------------------------------|---------------------------------------|
| Appearance | White to off-white powder or granules |
| Assay (HPLC), % | ≥ 92.0 |
| Loss on Drying (105°C, 2h), % | ≤ 10.0 |
| pH (10g/L, 25°C) | 5.0 – 7.5 |
| Heavy Metals (Pb), mg/kg | ≤ 20 |
| Total Plate Count, cfu/g | ≤ 100 |

** The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications.*

STORAGE

Keep away from light and moisture, to be stored in cool and dry place at room temperature.

SHELF LIFE

24 months

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