

CERTIFICATE OF ANALYSIS

Product Name	γ-Polyglutamic acid(Na ⁺ form), γ-PGA		
Grade	Cosmetic grade		
Batch Number	20220122	Manufacture Date	20220122
Report Date	20220122	Expiry Date	20240121

Item of Analysis	Specification	Results
Physical appearance	White to off white granular or powder, no agglomeration	Complies
ASSAY	≥90%	92.1%
Intrinsic Viscosity	1.0-5.0 dL/g	1.46 dL/g
Molecular weight	measured value	0.7* 106 Da.
Loss on drying	≤10%	6.55%
Heavy metals (Pb)	≤10 mg/kg	Negative
Transmittance (5g/L, AQ, 400nm)	≥95%	99.2%
pH (10g/L,AQ, 25°C)	5.0-7.5	6.73
Total plate count	≤100 CFU/g	Complies

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging

