

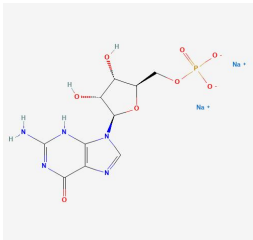


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: Disodium 5'-Guanylate

Chemical Structure:



Molecular Formula: C₁₀H₁₂N₅Na₂O₈P·xH₂O

Molecular Weight: 407.19 (anhydrous basis)

CAS No.: 5550-12-9

Specifications

Item	Limit	Analysis method
Description	White or almost white crystalline powder	Visual
pH (5% solution)	7.0 to 8.5	pH meter
Loss on drying	Not more than 25.0%	Gravimetric method (120 °C, 4 h)
Transmittance (5% solution)	Not less than 95.0%	Spectrophotometry
Arsenic (as As)	Not more than 2.0 mg/kg	ICP-MS
Heavy metals (as Pb)	Not more than 20 mg/kg	Colorimetric method
Assay (on dry basis)	97.0% to 102.0%	UV spectrophotometry (260 nm)
Related substances (other nucleotides)	Not detectable	HPLC
Related substances (amino acids)	Not detectable	Ninhydrin test
Related substances (ammonium, as NH ₄)	Not more than 0.02%	Colorimetric method
UV absorbance ratio (A ₂₅₀ /A ₂₆₀)	0.95 to 1.03	UV spectrophotometry (0.01 N HCl)
UV absorbance ratio (A ₂₈₀ /A ₂₆₀)	0.63 to 0.71	UV spectrophotometry (0.01 N HCl)
Maximum absorption wavelength	256 ± 2 nm	UV spectrophotometry

Recommended shelf life: 2 years

External packing: Fibre drum, 25 kg net

Inner packing: Double-layer PE bag

Storage: Preserve in tight containers, protected from light, in a cool and dry place.

Note: Analytical methods refer to the current JECFA (FAO/WHO) specifications; the product is manufactured and released against the manufacturer's standard. Loss on drying represents mainly the water of crystallization. This document is for reference only; the quality of each batch shall be subject to the Certificate of Analysis (COA) supplied with the goods.

Preparation Date: Sep. 20, 2026 | Version: 1.0 | Prepared by:

Product code: JC-GUA-001 | Product name: Disodium 5'-Guanylate