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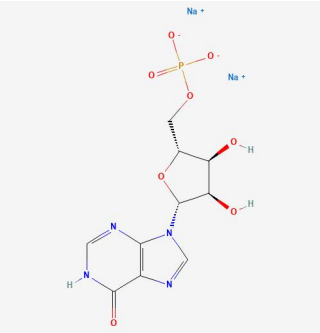
Jincheng Bio-Tech (Tianjin) Co., Ltd.

Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: Disodium 5'-Inosinate
Chemical Structure:



Molecular Formula: C10H11N4Na2O8P·xH2O
Molecular Weight: 392.17 (anhydrous basis)
CAS No.: 4691-65-0

Specifications

Item	Limit	Analysis method
Description	White crystalline powder with a characteristic umami taste	Visual
pH (5% solution)	7.0 to 8.5	pH meter
Loss on drying	Not more than 29.0%	Karl Fischer method
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 10 mg/kg	Colorimetric method
Assay (on dry basis)	97.0% to 102.0%	UV spectrophotometry (250 nm)
Related substances (other nucleotides)	Not detectable	HPLC
UV absorbance ratio (A250/A260)	1.55 to 1.65	UV spectrophotometry (0.01 N HCl)
UV absorbance ratio (A280/A260)	0.20 to 0.30	UV spectrophotometry (0.01 N HCl)
Maximum absorption wavelength	250 ± 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-IMP-001 | Product name: Disodium 5'-Inosinate