



Certificate of Analysis

Monosodium L-Glutamate Monohydrate FCC

Catalog Number: MG1001
Lot Number: 1007902
CAS Number: 6106-04-3
Synonym(s): L-2-Aminopentanedioic acid, MSG, Sodium L-glutamate
Molecular Formula: $C_5H_8NNaO_4 \cdot H_2O$
Molecular Weight: 187.13
Storage: 15°C – 30°C
Date of Manufacture: July 5, 2019
Retest Date: July 4, 2022
Distributor: Dongyu USI

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay	≥ 99.0%	99.5%
Identification		
Sodium	To meet requirements	Conforms
Glutamate	To meet requirements	Conforms
Specific Rotation	+24.8° to +25.3°	+25.1°
Solubility	Clear & colorless	Conforms
pH (2%)	6.7 – 7.2	6.9
Moisture (LOD)	≤ 0.22%	0.08%
Chloride	≤ 0.2%	< 0.2%
Heavy Metals	≤ 10 µg/g	< 1 µg/g
Arsenic	≤ 1 µg/g	< 0.5 µg/g
Cadmium	≤ 1 µg/g	Not Detected
Copper	≤ 1 µg/g	Not Detected
Lead	≤ 1 µg/g	Not Detected
Mercury	≤ 0.05 µg/g	Not Detected
Pyrrolidone Carboxylic Acid	Negative	Negative
Total Plate Count	≤ 1000 cfu/g	<1000 cfu/g
Yeast & Mold	≤ 100 cfu/g	< 100 cfu/g
Coliforms	≤ 3 MPN/g	< 3 MPN/g
E. coli	Negative	Negative
Salmonella	Negative	Negative
Enterobacteriaceae	≤ 10 cfu/g	< 10 cfu/g

For research or further manufacturing. Not for drug, clinical or a food use in humans or animals.



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Approved by:

Date: September 13, 2019

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