

SPECIFICATION

Sodium L-Glutamate Hydrate

Japanese Pharmaceutical Codex

REQUIREMENT	SPECIFICATION
* Description (JPC)	White crystals or crystalline powder
Identification (JPC)	to pass test
Optical rotation [α]D20 (JPC)	+24.8~+25.3°
pH (JPC)	6.7~7.2
Purity (JPC)	-
(1) Clarity and color of solution (JPC)	to pass test
(2) Chloride (JPC)	not more than 0.041%
(3) Sulfate (JPC)	not more than 0.028%
(4) Ammonium (JPC)	not more than 0.02%
(5) Heavy metals (JPC)	not more than 10ppm
(6) Arsenic (JPC)	not more than 1ppm
(7) Foreign amino acids (JPC)	to pass test
Loss on drying (JPC)	not more than 0.5%
Assay (after drying) (JPC)	not less than 99.0%
** Bacterial endotoxins	less than 3.9EU/g
Identification (USP-NF)	to pass test
Assay (USP-NF)	99.0~100.5%
Impurities (USP-NF)	-
(1) Chloride (USP-NF)	NMT 0.25%
(2) Lead (USP-NF)	NMT 10 μ g/g
Specific tests (USP-NF)	-
(1) Clarity and color of solution (USP-NF)	to pass test
(2) Optical rotation (USP-NF)	+24.8~+25.3°
(3) pH (USP-NF)	6.7~7.2
(4) Loss on drying (USP-NF)	NMT 0.5%

Japanese Pharmaceutical Codex (Monosodium L-Glutamate Monohydrate)(*Reference item)(**Additional test performed by Wako)United States Pharmacopeia - National Formulary (Monosodium Glutamate)