



Specification

Concerning Product:	
Article number	6106043AL
Trade name / designation / denomination	Mononatrium L-Glutamate, EP
CAS number	6106-04-3
Other names / synonyms	•L(+)-Glutamic acid monosodium salt monohydrate (Sodium Glutamate); •L-Glutamic acid, sodium salt, hydrate (1:1:1); •sodium (4S)-4-amino-5-hydroxy-5-oxopentanoate hydrate;
EC number	612-072-6
Molecular weight [g / mol]	187.12637
Formula	C ₅ H ₁₀ NNaO ₅

Parameter	Specification	Unit
Organoleptic test		
Appearance	White, practically odorless crystals or crystalline powder.	
Physical parameter		
Loss on drying	≤ 0,5	%
pH value	6,7 – 7,2	
Specific Optical Rotation	24,8 – 25,3	°
Solubility	Freely soluble in water; practically insoluble in ethanol or ether	
Transmittance	(410 nm) ≥ 98	%
Identity		
Assay	99,0 – 100,5	%
Identification	Positive test for glutamic acid: Passes test	
Identification	Positive test for sodium: Passes test	
Impurities		
Heavy Metals (as Pb)	≤ 10	mg/kg
Sulphates (SO ₄)	≤ 300	mg/kg
Impurity	Positive ninhydrin substances: None	
Impurity	Pyrrolidone carboxylic acid ≤ 0,2	%
Elemental Impurities		
Arsenic (As)	≤ 1,5	mg/kg
Chlorides (Cl)	≤ 400	mg/kg
Lead (Pb)	≤ 1	mg/kg
Microbiological data		
Coliform bacteria	≤ 10	
Salmonella	not detectable in 25 g	
Total Plate Count	≤ 5000	CFU/g
Yeast and Mould	≤ 100	CFU/g

Supplemental information:

Shelf life: 5 years

Storage conditions: Stored in a clean, well-ventilated area, avoid humidity and excessive temperatures, keep away from odorous materials.

Packing: Big bags, bags, or by bulk carrier

Regional origin: FR

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 18. Dec. 2019

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