



Specification

1.00291.0250 L-Glutamic acid for biochemistry

	Specification	
Assay (alkalimetric, calculated on dried substance)	99.0 - 100.5	%
Identity (IR-spectrum)	passes test	
Appearance	white to almost white, crystalline powder or colorless crystals	
Appearance of solution (100 g/l, hydrochloric acid 1 mol/l)	clear and colorless	
Spec. rotation (α 20/D, 100 g/l, hydrochloric acid 1 mol/l, calc. on dried substance)	+30.5 to +32.5	°
Chloride (Cl)	≤ 200	ppm
Sulfate (SO ₄)	≤ 200	ppm
Heavy metals (as Pb)	≤ 10	ppm
As (Arsenic)	≤ 5	ppm
Ca (Calcium)	≤ 10	ppm
Co (Cobalt)	≤ 5	ppm
Fe (Iron)	≤ 5	ppm
K (Potassium)	≤ 5	ppm
Mg (Magnesium)	≤ 5	ppm
Na (Sodium)	≤ 100	ppm
NH ₄ (Ammonium)	≤ 200	ppm
Zn (Zinc)	≤ 5	ppm
Related substances (LC) (largest single impurity)	≤ 0.2	%
Related substances (LC) (Sum of all impurities)	≤ 0.6	%
Loss on drying (105 °C; 3 h)	≤ 0.1	%

Dr. Michael Memmel

Responsible laboratory manager quality control

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