



# Specification

1.08371.0000 L-Tyrosine for biochemistry

Specification		
Assay (perchloric acid titration, calculated on dried substance)	99.0 - 101.0	%
Identity (IR-spectrum)	passes test	
Appearance	white to almost white, crystalline powder or colorless crystals	
Appearance of solution (25 g/l, Hydrochloric acid 2 mol/l)	clear and not more intense in color than reference solution Y <sub>7</sub>	
Spec. rotation (α 20/D, 50 g/l, hydrochloric acid 1 mol/l, calc. on dried substance)	-12.1 to -11.3	°
Chloride (Cl)	≤ 200	ppm
Sulfate (SO <sub>4</sub> )	≤ 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
Zn (Zinc)	≤ 5	ppm
Ninhydrin-positive substances (LC) (impurity A (570 nm))	≤ 0.5	%
Ninhydrin-positive substances (LC) (any ninhydrin-positive impurity)	≤ 0.2	%
Ninhydrin-positive substances (LC) (ammonium (570 nm))	≤ 0.02	%
Ninhydrin-positive substances (LC) (total impurities)	≤ 0.6	%
Loss on drying (105 °C; 3 h)	≤ 0.2	%

Dr. Michael Memmel

Responsible laboratory manager quality control

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