



Specification

1.08374.0010 L-Tryptophan for biochemistry

Specification		
Assay (perchloric acid titration, calculated on dried substance)	99.0 - 101.0	%
Identity (IR-spectrum)	passes test	
Identity (specific rotation)	passes test	
Spec. rotation (α 20/D, 10 g/l, water, calc. on dried substance)	-30.0 to -33.0	°
Appearance	white to almost white, crystalline or amorphous powder	
Appearance of solution (10 g/l, Hydrochloric acid 1 mol/l)	clear and colorless	
Chloride (Cl)	≤ 200	ppm
Sulfate (SO ₄)	≤ 300	ppm
Fe (Iron)	≤ 20	ppm
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)	≤ 0.5	%
Loss on drying (105 °C; 3 h)	≤ 0.3	%

Dr. Michael Memmel

Responsible laboratory manager quality control

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