



Specification

1.05707.0100 L-Methionine for biochemistry

Specification		
Assay (perchloric acid titration, calculated on dried substance)	≥ 99.0	%
Identity (IR-spectrum)	passes test	
Appearance	white or almost white, crystalline powder or colorless crystals	
Appearance of solution (0.5 mol/l, hydrochloric acid 1 mol/l)	clear and colorless	
Spec. rotation (α 20/D, 50 g/l, hydrochloric acid 1 mol/l, calc. on dried substance)	+22.5 to +23.5	°
UV-Absorption (260 nm, 0.5 mol/l, 1 cm, hydrochloric acid 1 mol/l)	≤ 0.50	
UV-Absorption (280 nm, 0.5 mol/l, 1 cm, hydrochloric acid 1 mol/l)	≤ 0.20	
Chloride (Cl)	≤ 0.02	%
Sulfate (SO ₄)	≤ 0.01	%
Heavy metals (as Pb)	≤ 0.001	%
As (Arsenic)	≤ 0.0005	%
Ca (Calcium)	≤ 0.001	%
Co (Cobalt)	≤ 0.0005	%
Fe (Iron)	≤ 0.0005	%
K (Potassium)	≤ 0.0005	%
Mg (Magnesium)	≤ 0.0005	%
Na (Sodium)	≤ 0.005	%
NH ₄ (Ammonium)	≤ 0.01	%
Zn (Zinc)	≤ 0.0005	%
Foreign amino acids	≤ 0.3	%
Other ninhydrine positive substances	≤ 0.1	%
Loss on drying (105 °C; 3 h)	≤ 0.3	%

Dr. Michael Memmel
Responsible laboratory manager quality control

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