



# Specification

## 1.05362.0100 L-Isoleucine 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 flakes	
Appearance of solution (50 g/l, hydrochloric acid 1 mol/l)	clear and not more intense in color than reference solution BY <sub>6</sub>	
Spec. rotation ( $\alpha$ 20/D, 40 g/l, Hydrochloric acid 250 g/l, calc. on dried substance)	+40.0 to +43.0	°
Chloride (Cl)	≤ 200	ppm
Sulfate (SO <sub>4</sub> )	≤ 300	ppm
Heavy metals (as Pb)	≤ 20	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)	≤ 50	ppm
Zn (Zinc)	≤ 5	ppm
Ninhydrin-positive substances (LC) (impurity A (570 nm))	≤ 0.3	%
Ninhydrin-positive substances (LC) (impurity C (570 nm))	≤ 0.3	%
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)	≤ 1.0	%
Loss on drying (105 °C; 3 h)	≤ 0.3	%

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Responsible laboratory manager quality control

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