



Specification

1.04351.9010 L-Histidine for biochemistry

| Specification | | |
|---|--|-----|
| Assay (acidimetric, calculated on dried substance) | 99.0 - 101.0 | % |
| Identity (IR-spectrum) | passes test | |
| Appearance | white to almost white, fine-crystalline powder or colorless crystals | |
| Appearance of solution (50 g/l; water) | clear and colorless | |
| Spec. rotation (α 20/D, 110 g/l, hydrochloric acid 120 g/l, calc. on dried substance) | +11.4 to +12.4 | ° |
| Chloride (Cl) | ≤ 200 | ppm |
| Sulfate (SO ₄) | ≤ 200 | ppm |
| Heavy metals (as Pb) | ≤ 10 | ppm |
| As (Arsenic) | ≤ 5.0 | 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) (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) | ≤ 0.2 | % |

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Responsible laboratory manager quality control

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