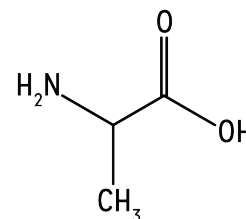


# Product Specification

<b>Product Name</b>	L-Alanine
<b>Compendia</b>	USP/EP/JP
<b>CAS #</b>	56-41-7
<b>Formula</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>
<b>Molecular Weight</b>	89.09
<b>Description</b>	White crystals or crystalline powder; slightly sweet taste.
<b>Solubility</b>	Freely soluble in water and in formic acid, practically insoluble in ethanol (99.5). Dissolves in .6 mol/L hydrochloric acid.
<b>Identification</b>	Compare the infrared absorption spectrum of the sample with that of the standard by potassium bromide disc method.



Test	Specification
<b>Specific Rotation @ 20°C</b>	+14.3 to +15.2°
<b>State of Solution</b>	Clear and colorless; Not less than 98.0%
<b>Chloride (Cl)</b>	Not more than 0.020%
<b>Ammonium (NH<sub>4</sub>)</b>	Not more than 0.02%
<b>Sulfate (SO<sub>4</sub>)</b>	Not more than 0.020%
<b>Iron (Fe)</b>	Not more than 10ppm
<b>Heavy Metals (Pb)</b>	Not more than 10ppm
<b>Arsenic (As<sub>2</sub>O<sub>3</sub>)</b>	Not more than 1ppm
<b>Related Substances</b>	1) Any unspecified impurity: Not more than 0.10%; Total impurities: Not more than 0.50%. 2) Maleic acid: Not more than 0.50%; Malic acid: Not more than 0.05%; Fumaric acid: Not more than 0.05%; Any unspecified impurity: Not more than 0.05%; Total unspecified impurities: Not more than 0.20%.
<b>Loss on drying</b>	Not more than 0.20%
<b>Residue on Ignition (Sulfated)</b>	Not more than 0.10%
<b>Assay</b>	98.5 to 101.0%
<b>pH</b>	5.7 to 6.7
<b>Endotoxin</b>	Less than 6.0 EU/g