

## **Product Specification**

Product Name
Compendia
USP/EP/JP
CAS # 56-45-1
Formula
Molecular Weight
L-Serine
USP/EP/JP
56-45-1
105.09

**Description** White crystals or crystalline powder;

slightly sweet taste.

**Solubility** Freely soluble in water and in formic acid,

practically insoluble in ethanol (99.5).

Dissolves in 2 mol/ L hydrochloric acid.

**Identification** Compare the infrared absorption spectrum

of the sample with that of the standard by

potassium bromide disc method.

## Test Specification

Specific Rotation @ 20°C +14.4 to +15.5°

State of Solution Clear and colorless; Not less than 98.0%

Chloride (Cl)

Ammonium (NH<sub>4</sub>)

Sulfate (SO<sub>4</sub>)

Iron (Fe)

Heavy Metals (Pb)

Arsenic (As<sub>2</sub>O<sub>3</sub>)

Not more than 0.020%

Not more than 10 ppm

Not more than 10 ppm

Not more than 10 ppm

Related Substances 1) Conforms

2) Any unspecified impurity: Not more than 0.20%; Total impurities: Not more than 0.50%

H<sub>2</sub>N

0H

Loss on DryingNot more than 0.20%Residue on Ignition (Sulfated)Not more 0.10%Assay98.5 to 101.0%

pH 5.2 to 6.2

**Endotoxin** Less than 6.0 EU/g