

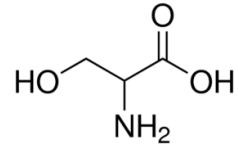
DL-SERINE

BASED ON USP 39 (L-SERINE)

PARAMETER	LIMIT
Appearance: White or almost white crystalline powder or colourless crystals	passes
Identity	passes
Specific optical rotation (on dry basis) (10.0 % (m/V) in 2 M HCl at 20°C [α] _D ²⁰)	-0.5° to +0.5°
Ninhydrin-positive substances (TLC)	passes
Chlorides	≤ 500 ppm
Sulphates	≤ 300 ppm
Iron	≤ 30 ppm
Heavy metals (as Pb)	≤ 15 ppm
Loss on drying	≤ 0.2 %
Residue on ignition	≤ 0.1 %
Assay (on dry basis)	98.5 to 101.5 %
Organic volatile impurities	passes
Total viable aerobic count	≤ 100 CFU/g
Moulds and yeasts	≤ 10 CFU/g
Salmonella	In 1 g n.d.
<i>Escherichia coli</i>	In 1 g n.d.

CHEMICAL DATA

Formula: C₃H₇NO₃
CAS Number: 302-84-1



PACKAGING

25 kg Unit
Outer container: Fiber drum
Outer liner: Alu/PE comp.
Inner liner: LDPE

STORAGE

Dry and dark at room temperature in tightly closed container

STABILITY

Product is stable for 4 years from date of production if stored under recommended conditions in original packaging.