



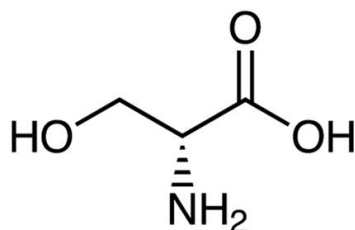
## Certificate of Analysis.

### D-Serine reference standard, Anstan<sup>®</sup>.

Product code:	<b>BS13958.</b>
Description:	<b>D-Serine reference standard, Anstan<sup>®</sup>.</b>
Chemical Name:	<b>D-2-Amino-3-hydroxypropionic Acid.</b>
Pack:	<b>5 gm.</b>
CAS NO.:	<b>312-84-5.</b>
Mol. Weight:	<b>105.09 g/mol.</b>
Mol. Formula:	<b>C<sub>3</sub>H<sub>7</sub>NO<sub>3</sub>.</b>
MDL Number:	<b>MFCD00004269.</b>
Melting point:	<b>220 °C.</b>
Boiling Point:	<b>197.09°C.</b>
Density:	<b>1.415g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in water.</b>
Storage:	<b>Store at ambient temperature.</b>
LOT NO.:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Test	Specification	Measured Values
Appearance:	White to Almost white powder to crystal.	<b>Lot specific.</b>
Specific rotation:	-14.3 to -15.5 ° (C=10, HCl(1+5)).	<b>Lot specific.</b>
Identification by NMR:	Confirms to the structure.	<b>Lot specific.</b>
Identification by MASS:	Confirms to the structure.	<b>Lot specific.</b>
Identification by IR:	Confirms to the structure.	<b>Lot specific.</b>
Assay by titration:	>99%.	<b>Lot specific.</b>

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.



  
**Dr. K. Deepti.**  
**Technical Head.**

