

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	00262
<b>Product</b>	<b>D-Serine</b>
<b>Lot Number</b>	001192-8002814126 D-Ser-OH D-β-Hydroxyalanine
<b>CAS Number</b>	312-84-5
<b>Molecular Formula</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	105.1
<b>Appearance</b>	White crystalline powder
<b>Heavy Metals</b>	< 10 ppm
<b>Trace Metal Analysis</b>	Lead (Pb): < 3 ppm Mercury (Pb): < 0.1 ppm Cadmium (Cd): < 1 ppm
<b>Arsenic (As<sub>2</sub>O<sub>2</sub>)</b>	< 1 ppm
<b>Anion</b>	Chloride (Cl-): < 0.02% Sulfate (SO <sub>4</sub> ): < 0.02%
<b>Cation</b>	Ammonium (NH <sub>4</sub> ): < 0.02% Iron (Fe): < 10 ppm
<b>pH</b>	5.70 (1g in 10 mL)
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -14.63°
<b>Transmission</b>	98.6%
<b>Loss on Drying</b>	0.08%
<b>Residue On Ignition</b>	0.02%
<b>Assay by titration</b>	100.24% (anhydrous basis)
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Isomer purity: 0%

# *Certificate of Analysis*

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**