

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	00017
<b>Lot Number</b>	001192-131201
<b>Product</b>	<b>DL-Alanine</b>
	DL-Ala-OH
	( <i>R,S</i> )-2-Aminopropionic acid
<b>CAS Number</b>	302-72-7
<b>Molecular Formula</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>
<b>Molecular Weight</b>	89.09

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<b>Appearance</b>	White crystalline powder
<b>Heavy Metals</b>	< 10 ppm
<b>Arsenic (As<sub>2</sub>O<sub>2</sub>)</b>	< 1 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ): < 0.02% Sulfate (SO <sub>4</sub> <sup>2-</sup> ): < 0.02%
<b>Cation</b>	Ammonium (NH <sub>4</sub> ): < 0.02% Iron (Fe): < 20 ppm
<b>pH</b>	6.2
<b>Infrared Spectrum</b>	Conforms to structure
<b>Transmission</b>	98.3%
<b>Loss on Drying</b>	0.12%
<b>Other Amino Acids</b>	Chromatographically not detectable
<b>Residue On Ignition</b>	0.06% (sulfated)
<b>Assay by titration</b>	99.5%
<b>Storage</b>	Store at RT

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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**