

# *Chem-Impex International, Inc.*

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**Manufacturing site:**

825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	00628
<b>Lot Number</b>	20070201
<b>Product</b>	<b>L-Cysteine ethyl ester hydrochloride</b>  L-Cys-OEt•HCl
<b>CAS Number</b>	868-59-7
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S•HCl
<b>Molecular Weight</b>	185.7

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<b>Appearance</b>	White crystalline powder
<b>Heavy Metals</b>	5 ppm
<b>Arsenic (As<sub>2</sub>O<sub>2</sub>)</b>	0.5 ppm
<b>Anion</b>	Chloride (Cl <sup>-</sup> ): 19.04% Sulfate (SO <sub>4</sub> ): 0.015%
<b>Cation</b>	Ammonium (NH <sub>4</sub> ): 0.015%
<b>pH</b>	2.5-3.5
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -13.1°
<b>Transmission</b>	98.2%
<b>Loss on Drying</b>	0.25%
<b>Other Amino Acids</b>	Chromatographically not detectable
<b>Residue On Ignition</b>	0.08%
<b>Assay by titration</b>	99.2%
<b>Storage</b>	Store at 0-8 °C

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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**