

# *Chem-Impex International, Inc.*

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## Certificate of Analysis

<b>Catalog Number</b>	03869
<b>Product Name</b>	<b>Z-Ser-NHNH<sub>2</sub></b> Z-L-serine hydrazide
<b>Lot Number</b>	110210-11722
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>15</sub> N <sub>3</sub> O <sub>4</sub>
<b>Molecular Weight</b>	253.26
<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 25ml DMF)
<b>Melting Point</b>	183.9 – 184.7 °C
<b>Optical Rotation</b>	$\alpha_D^{20} = +7.05^\circ$ ( c = 2 in DMF)
<b>Analysis by mass spectrum</b>	Complies to standard
<b>Purity by HPLC</b>	98.60%
<b>Storage</b>	Store at 0-5°C.
<b>Remarks</b>	See material safety data sheets 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