

# Chem-Impex International, Inc.

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**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	32478
<b>Product</b>	<b>(-)-Hyoscyamine</b>
<b>Lot Number</b>	001253-23521408
	L-Hyoscyamine
<b>CAS Number</b>	101-31-5
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>23</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	289.37

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<b>Appearance</b>	White solid
<b>Melting Point</b>	106.6 - 108.7 °C
<b>Optical Rotation</b>	[α] <sub>20</sub> /D = -18.1 ° (C=1 in EtOH)
<b>Loss on Drying</b>	0.13%
<b>Residue On Ignition</b>	0.05%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	96.9%
<b>Storage</b>	Store at ≤ -10 °C

**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**