

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	05909
<b>Product</b>	<b>L-Citrulline <math>\beta</math>-naphthylamide hydrobromide</b>
<b>Lot Number</b>	000127-1041783 L-Cit- $\beta$ NA•HBr  (S)-2-Amino-5-ureidopentanoic acid $\beta$ -naphthylamide hydrobromide
<b>CAS Number</b>	201988-71-8
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub> •HBr
<b>Molecular Weight</b>	381.43
<b>Appearance</b>	White product
<b>Solubility</b>	Clear, colorless solution (50 mg/mL in Methanol)
<b>Melting Point</b>	135 °C
<b>Elemental Analysis (Theory)</b>	C = 48.13%; H = 5.81%; N = 14.03%
<b>Elemental Analysis (Found)</b>	C = 48.06%; H = 5.87%; N = 13.77%; (calculated as HBr (20.0%) x H <sub>2</sub> O (4.5%))
<b>Water Content (Karl Fisher)</b>	4.8%
<b>TLC System</b>	Chloroform/Methanol/Benzene/H <sub>2</sub> O (8:8:8:1) Chloroform/methanol/acetic acid/H <sub>2</sub> O (70:42:0.5:10) Ethylacetate/pyridine/acetic acid/H <sub>2</sub> O (60:20:6:11) Plate: silicagel 60 F <sub>254</sub> Detected by: UV, ninhydrin, chlorine-tolidine
<b>Titration</b>	Bromide content: 19.9% (AgNO <sub>3</sub> )
<b>Purity by TLC</b>	> 99%
<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**