

# Chem-Impex International, Inc.

---

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalogue Number</b>	01357
<b>Lot Number</b>	000424-200724-30800
<b>Product</b>	<b><i>N</i><sup>α</sup>-Boc-<i>N</i><sup>im</sup>-2,4-dinitrophenyl-L-histidine• Boc-L-His(Dnp)-OH•IPA</b>
<b>CAS Number</b>	25024-53-7
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>19</sub> N <sub>5</sub> O <sub>8</sub> •C <sub>3</sub> H <sub>8</sub> O
<b>Molecular Weight</b>	481.5

---

<b>Appearance</b>	Light yellow powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Melting Point</b>	114.5 - 115.0 °C
<b>Water Content (Karl Fisher)</b>	0.56%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 58.7 ° (C=1 in EtOAc)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.88% (50 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.18%
<b>Storage</b>	Store at 0 - 8 °C
<b>Remarks</b>	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