

# 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>	23062
<b>Lot Number</b>	000129-230622
<b>Product</b>	<b>(+)-Biotin-(PEO)<sub>4</sub>-amine</b>
<b>CAS Number</b>	359860-27-8
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>34</sub> N <sub>4</sub> SO <sub>5</sub>
<b>Molecular Weight</b>	418.55

---

<b>Appearance</b>	White solid
<b>Water Content (Karl Fisher)</b>	0.55%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 49 ° (C=1 in Methanol)
<b>Residual Solvents</b>	Not detected
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Assay by titration</b>	96.2%
<b>Purity by HPLC</b>	97.6%
<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**