

# 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>	28069
<b>Product</b>	<b>Coccarboxylase tetrahydrate</b>

<b>Lot Number</b>	002129-20180106
<b>CAS Number</b>	68684-55-9
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>18</sub> N <sub>4</sub> O <sub>7</sub> P <sub>2</sub> S•4H <sub>2</sub> O
<b>Molecular Weight</b>	496.37

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<b>Appearance</b>	White powder
<b>Anion</b>	Chloride: < 0.01%
<b>Water Content (Karl Fisher)</b>	15.6%
<b>pH</b>	2.6
<b>Infrared Spectrum</b>	Conforms to structure
<b>Residual Solvents</b>	Ethanol: 0.15% (GC)
<b>Related Substances</b>	Thiamine monophosphoric acid ester : 0.63% Thiamine : 0.06% Other related substances (HPLC) : 0.1%
<b>Purity by HPLC</b>	98.2%
<b>Storage</b>	Store at 0-8°C

<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only
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The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
**Quality Control Manager**