

# Chem-Impex International, Inc.

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**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

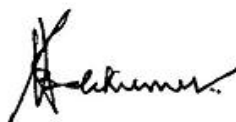
<b>Catalogue Number</b>	33412
<b>Lot Number</b>	002745-20190218
<b>Product</b>	<b>DL-Panthenol</b> (±)-α,γ-Dihydroxy-N-(3-hydroxypropyl)-β,β-dimethylbutyramide
<b>CAS Number</b>	16485-10-2
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>19</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	205.25

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<b>Appearance</b>	White powder
<b>Melting Point</b>	64.7 - 66.8 °C
<b>Heavy Metals</b>	< 10 ppm
<b>Optical Rotation</b>	[α] <sup>20</sup> <sub>D</sub> = 0 °
<b>Loss on Drying</b>	0.19%
<b>Residual Solvents</b>	0.016% (Aminopropanol)
<b>Sulfated Ash</b>	0.02%
<b>Assay by titration</b>	99.81%
<b>Grade</b>	USP
<b>Storage</b>	Store at RT

**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**