

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	46535
<b>Product</b>	<b>5-Hydroxy-L-tryptophan from fermentation</b>
<b>Lot Number</b>	003117-20220314 L-Trp(5-OH)-OH
<b>CAS Number</b>	4350-09-8
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight</b>	220.2

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<b>Appearance</b>	White or off-white powder
<b>Solubility</b>	Soluble in water (10 mg/mL)
<b>Bulk density</b>	0.42 g/mL
<b>Heavy Metals</b>	< 10 ppm
<b>Cation</b>	Lead (Pb) : < 0.5 ppm Arsenic (As) : < 0.5 ppm Cadmium (Cd) : < 0.1 ppm Mercury (Hg) : < 0.1 ppm
<b>pH</b>	4.9
<b>Yeast and Mold</b>	< 100 cfu/g
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -32.5 °
<b>Infrared Spectrum</b>	Conforms to structure
<b>Loss on Drying</b>	0.3%
<b>Coliform Organisms</b>	< 10 cfu/g
<b>E. Coli, Salmonella, S.Aureus</b>	Negative
<b>Microbial Count</b>	< 1000 cfu/g (TPC)
<b>Particle Size</b>	98% pass thr' 80 mesh
<b>Related Substances</b>	Total impurities : 0.3%
<b>Residue On Ignition</b>	0.1%
<b>Purity by HPLC</b>	99.6%
<b>Grade</b>	USP
<b>Storage</b>	Store at 0 - 8 °C
<b>Additional Information</b>	Tapped density : 0.67 g/mL

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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**