



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: L-Tryptophan
Catalog Number: 103151
Lot: SR02156

Formula: C₁₁H₁₂N₂O₂

CAS #: 73-22-3

Physical Description: White Crystalline Powder

Formula Weight: 204.2

Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	100.0%
UV/Vis: □□ max (water)	278 ± 5 nm	278.9 nm
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c=1, water)	-30° ± 10°	-31.8°
pH (1% aq soln)	5.5 - 7.0	6.5
Moisture	≤0.3%	0.12%
Residue on Ignition	≤0.1%	0.01%
Chloride	≤0.05%	<0.02%
Sulfate	≤0.03%	<0.02%
Iron	≤0.003%	<0.0020 %
Heavy Metals	≤0.0015%	<0.0010 %

Transmittance (T430): 97.2%

Arsenic: <1 ppm

Other Amino Acids: #0.50%

Endotoxin: <50 EU/g

Recommended Retest Date (MM/DD/YYYY): 01/02/2022



01/06/2020 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)