



INDOFINE Chemical Company, Inc.

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CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	025638	<u>Chemical Formula:</u>	C ₁₃ H ₁₆ N ₂ O ₂
<u>Product:</u>	MELATONIN (N-Acetyl-5-methoxytryptamine)	<u>Molecular Weight:</u>	232.28
<u>CAS Number:</u>	[73-31-4]	<u>Appearance:</u>	White to off white powder
<u>Lot Number:</u>	20180319	<u>Storage:</u>	Store in a cool, dry place

ITEMS	SPECIFICATION	RESULTS
IDENTIFICATION		
A. INFRARED ABSORPTION	POSITIVE	POSITIVE
B. ULTRAVIOLET ABSORPTION	POSITIVE	POSITIVE
C. HPLC IDENTIFICATION TEST	POSITIVE	POSITIVE
LOSS ON DRYING	1.0% MAX	0.2%
Part Used	Seed	Conforms
RESIDUE ON IGNITION	0.1% MAX	0.03%
MELTING POINT	116.0-120.0°C	117.4-118.7°C
CHLORIDE AND SULFATE	≤0.02%	PASS
HEAVY METALS	As ≤ 1PPM Cd ≤ 1PPM Hg ≤ 0.1PPM Pb ≤ 1PPM	PASS
RELATED COMPOUNDS	INDIVIDUAL IMPURITIES ≤ 0.1% OTAL IMPURITIES ≤ 1.0%	0.04% 0.19%
ASSAY (HPLC)	98.5~101.5%	99.7%

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