

Certificate Of Analysis

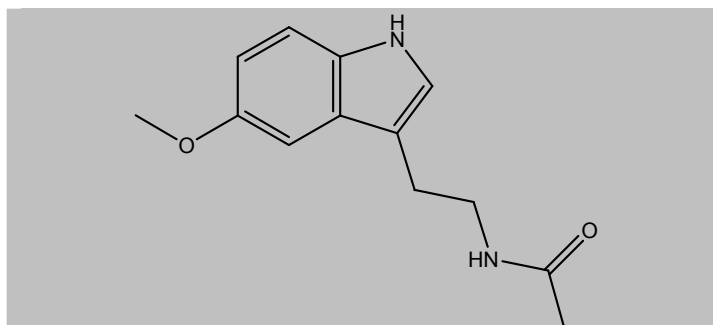
Quality Control Testing and Research Application

COA Preparation Date: 23/09/2013
COA Revision Date: 23/09/2016

Product: Melatonin
Cat. No.: BG0247
Batch No.: 0247BG/01
Chemical Name: *N*-Acetyl-5-methoxytryptamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₆N₂O₂
Batch Molecular Weight: 232.28
CAS No.: [73-31-4]
Physical Appearance: White or almost white crystalline powder
Melting Point: 117 - 118° C
Solubility: Soluble to 0.1 mg/ml in water or to 8 mg/ml in ethanol
Storage: -20° C
Batch Molecular Structure:



Product Description: Endogenous melatonin agonist. Hormone postulated to mediate photoperiodicity in mammals. Inhibits cerebellar nitric oxide synthetase. Solutions are light sensitive and subject to oxidation.

References: 1. Carrillo-Vico et al. (2005) Endocrine 27:1892; 2. Poeggeler (2005) Endocrine 27:201

- CAUTION - Not fully tested. For Research use only. Not for human use. -

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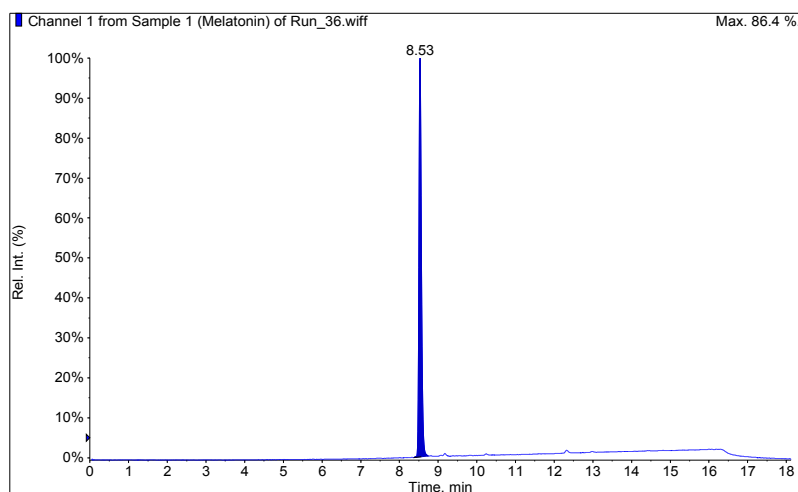
BG0247 Melatonin

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Loss on drying: 0.18% (complies); Residue on ignition: < 0.1% (complies);
Heavy Metals: < 20 ppm (complies); HPLC Assay: 99.73% (complies).



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