

## COMPARATIVA DE CERTIFICADOS DE ANÁLISIS DE DIFERENTES SUPLEMENTOS DE MELATONINA

MELATONINA 1 MG (marca conocida)  
 Suplemento venta mercado europeo  
 Grado de pureza: **99,30%**

KEY MELATONIN (1 mg)

Suplemento venta mercado europeo  
 Grado de pureza : **100,00%**

MELATONINA 3 mg (marca conocida)  
 Suplemento venta mercado europeo  
 Grado de pureza: **99,48**

Certificate Of Analysis		
Product Name	Melatonin	
CAS No	73-31-4	
Molecule formular	C <sub>17</sub> H <sub>16</sub> O <sub>2</sub> N <sub>2</sub>	
Batch no.	080101	
Quantity	20 Kg	
Packing	20 Kg* 1Drum	
Manu.date	20080101	
Exp.date	20100105	
Items	Specification	Analysis result
Characteristics	Off-white to white crystal powder	Pass
Identity(IR)	positive	Conforms
Purity (HPLC)	99.0%min	99.3%
Melting point(°C)	117- 119°C	117-118°C
Loss on Drying	≤0.5%	0.08 %
Heavy metals(ppm)	≤10	Pass
As	≤2.0PPM	Pass
Conclusion	Meet	

Analyst: Cheng yong      Inspector : Qian Yu Hua

CERTIFICATE OF ANALYSIS				
MELATONIN F				
N-(2-(5-methoxy-1H-indol-3-yl)ethyl)acetamide				
BATCH	110001	CODE	FC00000019	
QUANTITY	KG - 168,3	REFERENCE		
MANUFACTURING DATE	03/03/2011	ANALYTICAL REPORT NR.	2011000551	
RETEST DATE	10/02/2016	ANALYSIS DATE	28/03/2011	
TESTS	LIMITS			RESULTS
	MU	MIN	MAX	
ASPECT	CRYSTALLINE POWDER			COMPLIES
COLOUR	IVORY TO BEIGE			COMPLIES
IDENTIFICATION (IR)	MUST COMPLY			COMPLIES
IDENTIFICATION (HPLC)	MUST COMPLY			COMPLIES
MELTING POINT	°C	116.0	118.5	118.2
WATER CONTENT	%	0.3		0.1
ASSAY (HPLC)	% d.b.	98.0	102.0	100.1
PURITY (HPLC)	%	99.0		100.0
EACH UNKNOWN IMPURITY (HPLC)	%	0.10		0.00
5-METHOXYTRYPTAMINE (HPLC)	%	0.50		0.00
TOTAL IMPURITIES (HPLC)	%	1.0		0.0
HEAVY METALS	ppm	10		< 10
SULPHATED ASH	%	0.1		0.1
RESIDUAL METHYL ALCOHOL	ppm	2000		11
RESIDUAL 2-PROPANOL	ppm	2000		545
RESIDUAL TERT BUTYL METHYLETH	ppm	2000		30
ETHYL ACETATE (GC)	ppm	2000		170

NOTES: Extra-test: Aspect of solution=Clear,<Y4  
 FD 15/03/11  
 Extra test: Lead<1 ppm; Cadmium<0.5 ppm; Mercury<0.5 ppm; Arsenic < 1 ppm 24/03/11 CG

**APPROVED**

CERTIFICATE OF ANALYSIS		
REF: ML003A LOT: D05999		
品名: 褪黑素(100-120mesh)      批号: 20100206 PRODUCT NAME: Melatonin      BATCH NO.:20100206 包装: 25 公斤桶      批重: 300KG PACKING: 25KG/DRUM      BATCH WEIGHT: 300KG 生产日期: 2010/02/06      有效期: 2013/02/05 MANUFACTURING DATE: 2010/02/06      EXPIRY DATE: 2013/02/05 性状: 白色或类白色结晶粉末, 溶于乙醇, 微溶于水。 Characteristics: a white or yellowish crystalline powder.Soluble in alcohol,Slightly soluble in water. 贮藏条件: 避光、密封保存。 Storage: store in a well-closed container protected from light.		
项目 ITEMS	规格说明 SPECIFICATION	实测数据 RESULTS
鉴别 IDENTIFICATION	呈正反应 POSITIVE	呈正反应 POSITIVE
干燥失重 LOSS ON DRYING	0.5% MAX	0.18%
灼烧残渣 SULPHATED ASH	0.1% MAX	0.07%
重金属 HEAVY METALS	<10 ppm	Pass
Cadmium	<1 ppm	Pass
Lead	<3 ppm	Pass
Mercury	<0.1 ppm	Pass
Arsenic	<1 ppm	Pass
熔点 MELTING POINT	117-120 °C	118.5-119.5°C
含量 ASSAY 薄层色谱 (TCL)	≥99.0%	≥99.0%
高效液相色谱 (HPLC)	≥99.0%	99.48%
结论:符合企业标准 CONCLUSION:CONFORM TO THE REQUIREMENT OF CORPORATION STANDARD		
质保部主管 QA MANAGER	化验员 ANALYST	

- Grado de pureza: Análisis de pureza de melatonina HPLC (*High-performance liquid chromatography/ Cromatografía de alta eficacia*)

