



# Certificate of Analysis

## Elm & Rye

221 N. Broad Street, Suite 3A  
 Middletown, Delaware 19709

Product Description: Melatonin Sleep Gummy

Identification Number: ES-0067

Lot No.: 21SM0845

Date Received: 06/07/2021

Analysis Completed: 06/10/2021

Analysis	Specification	Result	Pass/Fail	Method
<b>Physical testing</b>				
Appearance	Square Gummy	Square Gummy	PASS	SOP 024
Color	Red, yellow, orange	Red, yellow, orange	PASS	SOP 024
Disintegration	<30 min	15 min	PASS	USP <2040>, SOP L048
Weight	N/A*	3,082 mg $\pm$ 7.5%	PASS	USP <2091>, SOP L047
<b>Chemical testing</b>				
Melatonin	5 mg/Gummy	4.89 mg/Gummy	PASS	USP <621>, STP 011
Lead (Pb)	<0.5 ppm	0.015 ppm	PASS	ICP-MS USP <730>, SOP L052
Arsenic (As)	<1.5 ppm	0.05 ppm	PASS	ICP-MS USP <730>, SOP L052
Cadmium (Cd)	<0.5 ppm	0.0016 ppm	PASS	ICP-MS USP <730>, SOP L052
Mercury (Hg)	<1.5 ppm	0.002 ppm	PASS	ICP-MS USP <730>, SOP L052
<b>Microbiology testing</b>				
Total Aerobic Count	$\leq$ 1000 cfu/g	<1000 cfu/g	PASS	USP <2021>, SOP L056
Total Yeast and Mold	$\leq$ 100 cfu/g	<100 cfu/g	PASS	USP <2021>, SOP L056
<i>Escherichia coli</i>	Absence/ 10 g	Absence/ 10 g	PASS	USP <2021>, SOP L056
<i>Salmonella</i> spp.	Absence/ 10 g	Absence/ 10 g	PASS	USP <2021>, SOP L056

\*Not reported by customer

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*These results apply only to the sample submitted and not to the product from which is taken. Test results are confidential unless explicitly waived otherwise.*

Prepared:  Andrea Figueroa  
 Quality Specialist

Date: 06/10/21

Results Approved  Rosa Lydia Solis, PhD  
 QA Manager

Date: 06/10/2021



# Advanced Botanical Consulting & Testing Inc.

1169 Warner Ave, Tustin, CA 92780, Phone:(714)259-0384 Fax: (714)259-0385

Elm Nutrition  
221 N. Broad Street, Suite 3A  
Middletown, Delaware 19709

**ATTN:** Elm Nutrition

**TEL#**

**FAX#**

**Sample Name: Melatonin Gummy**

**Item#**

**Lot#** 210716

**Lab#** 3453231

**PO#**

**Analysis:**

Total Plate Count

**Method:**

**Result:**

**Spec:**

Yeast

USP 2021

70 CFU/G

N/A

Mold

USP 2021

15 CFU/G

N/A

Enterobacteriaceae

USP 2021

<10 CFU/G

N/A

E coli

USP 2022

NEGATIVE/10G

N/A

Salmonella spp

USP 2022

NEGATIVE/10G

N/A

Staphylococcus aureus

USP 2022

NEGATIVE/10G

N/A

Clostridium spp

USP 2022

NEGATIVE/10G

N/A

Arsenic (As)

ICP/MS

0.131 mcg

N/A

Cadmium (Cd)

ICP/MS

0.026 mcg

N/A

Mercury (Hg)

ICP/MS

0.008 mcg

N/A

Lead (Pb)

ICP/MS

0.375 mcg

N/A

Melatonin (HPLC)

SOP:3.8.330

5.02mg Confirmed 5mg/gum



Approved by: Wendi Wang  
Wendi Wang, PhD, President