



Batch Information			
Product Name	LifePatent Sleep 15mg 30-count capsules		
Product Description	30-count 15mg full spectrum capsule with NDS formulation		
Lot Number	NJ012920F01		
Expiration Date	June 2021		
Date of Production	February 4 th 2020		
Batch Size	315,000 capsules	Quantity produced	250,000 capsules

Raw Ingredients		
Ingredient	Manufacturer	Lot Number
Dry cream	OP Innovates – trade secret	9093-190417
Rice hull concentrate	OP Innovates – trade secret	M1-112619
Organic tapioca starch	OP Innovates – trade secret	M1-112619
Organic gum arabic	OP Innovates – trade secret	M1-112619
Organic sunflower oil	OP Innovates – trade secret	M1-112619
Organic agave fiber (fructan)	OP Innovates – trade secret	M1-112619
Full spectrum cannabinoids	OP Innovates – trade secret	3035459-0014, 9042649-03, 9062974-01 , 6842222.019, 191001MLDIST03
Hempseed oil	Victory Hemp Foods	031520
Vegetable capsule	ACG Associated Capsules Ltd.	1150035145

This product has been laboratory tested for potency with total cannabinoid concentration within +15% of targeted concentration while also containing no more than 0.3% THC, confirmed by an accredited third-party laboratory. The product does not contain pesticides, residual solvents, heavy metals or microbial contaminants. Product is manufactured in accordance with cGMP and FDA regulations 21CFR111.



Signature, Production Manager

2/4/20

Date

Manufactured by OP Innovates:

OP Innovates
215 E High St
Lexington, KY 40507
www.opinnovates.com

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Certificate of Analysis

LifePatent

1056 Kennett Way
West Chester Pennsylvania 19380

Sample Name:	LP Sleep Capsule	Eurofins Sample:	9284740
Project ID	LIFEPATENT-20200217-0001	Receipt Date	17-Feb-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	17-Feb-2020
Description	NJ012920F01	Date Started	17-Feb-2020
		Sampled	Sample results apply as received

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	0.00650 %
CBDV	0.0290 %
CBDA	0.738 %
CBGA	0.00681 %
CBG	0.0718 %
CBD	4.14 %
THCV	<0.00250 %
CBN	0.0219 %
Delta 9-THC	0.175 %
Delta 8-THC	<0.00500 %
THCA	0.0189 %
CBC	0.228 %
THCVA	<0.00250 %
CBNA	<0.00250 %
CBCA	0.0271 %
CBL	0.0108 %
Total Cannabinoids	5.47 %
Total THC (THC + (THCA x 0.877))	0.192 %
Total CBD (CBD + (CBDA x 0.877))	4.79 %

Elements by ICP Mass Spectrometry

Arsenic	218 ppb
Cadmium	5.25 ppb
Lead	32.2 ppb
Mercury	<5.00 ppb

Mycotoxins in Raw Materials

Aflatoxin B1	<0.500 ppb
Aflatoxin B2	<0.500 ppb
Aflatoxin G1	<0.500 ppb
Aflatoxin G2	<0.500 ppb
Aflatoxin M1	<0.500 ppb
Aflatoxin M2	<0.500 ppb
Deoxynivalenol	<100 ppb
T-2 Toxin	<10.0 ppb

* This analysis or component is not ISO accredited.

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Analysis

Result

Mycotoxins in Raw Materials

HT-2 Toxin	<100 ppb
Fumonisin B1	<25.0 ppb
Fumonisin B2	<25.0 ppb
Ochratoxin A	<1.00 ppb
Zearalenone	<30.0 ppb

Enterococcus SMEDP *

Enterococcus Plate Count	<100 CFU/g
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Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a, 2b and 3 *				
1,1,1-Trichloroethane	10 ppm	10 ppm	<10 ppm	Pass
1,1-Dichloroethene	8 ppm	8 ppm	<8 ppm	Pass
1,2-Dichloroethane	5 ppm	5 ppm	<5 ppm	Pass
Benzene	2 ppm	2 ppm	<2 ppm	Pass
Carbon Tetrachloride	4 ppm	4 ppm	<4 ppm	Pass
1,2-Dimethoxyethane	100 ppm	100 ppm	<100 ppm	Pass
1,4-Dioxane	380 ppm	380 ppm	<380 ppm	Pass
Acetonitrile	410 ppm	410 ppm	<410 ppm	Pass
Chlorobenzene	360 ppm	360 ppm	<360 ppm	Pass
Chloroform	60 ppm	60 ppm	<60 ppm	Pass
1,2-Dichloroethene	1870 ppm	1870 ppm	<1870 ppm	Pass
Cumene	70 ppm	70 ppm	<70.0 ppm	Pass
Cyclohexane	3880 ppm	3880 ppm	<3880 ppm	Pass
Methanol	3000 ppm	3000 ppm	<3000 ppm	Pass
Methylbutylketone	50 ppm	50 ppm	<50 ppm	Pass
Methylcyclohexane	1180 ppm	1180 ppm	<1180 ppm	Pass
Methylene Chloride	600 ppm	600 ppm	<600 ppm	Pass
n-Hexane	290 ppm	290 ppm	<290 ppm	Pass
Nitromethane	50 ppm	50 ppm	<50 ppm	Pass
Pyridine	200 ppm	200 ppm	<200 ppm	Pass
Tetrahydrofuran	720 ppm	720 ppm	<720 ppm	Pass

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		Sampled	Sample results apply as received

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a, 2b and 3 *				
Tetralin	96 ppm	96 ppm	<96.0 ppm	Pass
Toluene	890 ppm	890 ppm	<890 ppm	Pass
Trichloroethylene	80 ppm	80 ppm	<80 ppm	Pass
Xylenes(O,M,P + EB)	2170 ppm	2170 ppm	<2170 ppm	Pass
1-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Pentanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
2-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
Methylethylketone	200 ppm	5000 ppm	<200 ppm	Pass
3-Methyl-1-butanol	200 ppm	5000 ppm	<200 ppm	Pass
Acetic Acid Butyl Ester	200 ppm	5000 ppm	<200 ppm	Pass
Acetone	200 ppm	5000 ppm	<200 ppm	Pass
Anisole	200 ppm	5000 ppm	<200 ppm	Pass
Diethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
Ethanol	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Formate	500 ppm	5000 ppm	<500 ppm	Pass
2-Methyl-1-propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isobutyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
2-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isopropyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methylisobutylketone	200 ppm	5000 ppm	<200 ppm	Pass
tert-Butylmethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
n-Heptane	200 ppm	5000 ppm	<200 ppm	Pass
n-Pentane	200 ppm	5000 ppm	<200 ppm	Pass
Propyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Total Class 3 Residual Solvents	5000 ppm	5000 ppm	<5000 ppm	Pass

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Method References

Testing Location

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).
Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Enterococcus SMEDP (MISC_4021)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

Standard Methods for the Examination of Dairy Products, 17th Edition, Chapter 8

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," Analytical and BioAnalytical Chemistry, 402:2675-2686 (2012).

Residual Solvents - Class 1, 2a, 2b and 3 (USPR_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

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Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing US, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



2918.01

Food Integ. Innovation-Madison NE

Shannon Jacoby - Business Unit Manager

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2102 Wright Street
Madison WI 53704
800-675-8375

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