

Open Book Extracts Specification Information Sheet

Document Code:	SIS-MF-172C	Effective Date:	07JUN2023
Revision Number:	2	Page Number:	1 of 6
OBX Innovation Vol. II - Sleep/Pain Gummy - Cloudberry			

1. Product Information

Product Name	OBX Innovation Vol. II - Sleep/Pain Gummy - CBD (10mg/ea) & CBN (10mg/ea) & L Theanine (50mg/ea) & GABA (5mg/ea) - Cloudberry
BPR Code	BPR-GU-011
Item Number	Bulk: ITM001397

2. Ingredient Statement*

<p>Organic Cane Sugar, Glucose Syrup, Water, Pectin, Sorbitol, Natural Flavors, L Theanine, Hemp-Derived Extract, Citric Acid, MCT Oil, Fruit and Vegetable Juice (Color), Malic Acid, γ-Aminobutyric acid, Carnauba Wax, Trisodium Citrate</p>

3. Chemical and Physical Properties

Specifications	Range
Product Type	Gummy
Product Weight	4.0 g +/- 10%
Form/Appearance	Purple Square Sugar Coated Gummy
Brix	78 - 80°
pH Post Cook	3.30 - 3.50
Water Activity	1.33 g/mL
Cannabis Oil Type	0.45 - 0.75 aW
Percent Weight of Cannabinoids	CBD Isolate & CBN Isolate
Recommended Dosage	0.50% Active Cannabinoids per gummy
Cannabinoid Spec	1 gummy = 20mg Active Cannabinoids
CBD Potency	2.50 mg/g +/- 10%
CBN Potency	2.50 mg/g +/- 10%
L Theanine Potency	12.5 mg/g +/- 10%
GABA Potency	1.25 mg/g +/- 10%

Active ingredient analysis is performed by an accredited third party laboratory using internally developed and validated methods with UHPLC-PDA detection. Potency specifications are determined by Open Book Extracts.

4. Packaging

In bulk, no packaging

5. Manufacturing Site

Open Book Extracts 317 Lucy Garrett Rd, Roxboro NC 27574
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8. Formulation

Description	% of Formulation (w/w)
Organic Cane Sugar	40 - 50%
Glucose Syrup	30 - 40%
Water	10 - 30%
Pectin	0.1 - 10%
Sorbitol	0.1 - 10%
Cloudberry flavor	0.1 - 10%
Citric Acid	0.1 - 10%
CBD Isolate	0.1 - 10%
CBN Isolate	0.1 - 10%
L Theanine	0.1 - 10%
GABA	0.1 - 10%
Purple Mist Color	0.1 - 10%
TruMask	0.1 - 10%
TruClear	0.1 - 10%
Malic Acid	0.1 - 10%
MCT Oil	0.1 - 10%
Carnauba Wax	0.1 - 10%

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9. Supplement Facts

SUPPLEMENT FACTS		
Serving Size (g)		4.1
Servings Per Container		
Calories (kcal)		10
Amount Per Serving		%DV
Total Fat (g)	0	0%
Saturated Fat (g)	0	0%
Trans Fat (g)	0	
Polyunsaturated Fat (g)	0	
Cholesterol (mg)	0	0%
Sodium (mg)	0	0%
Total Carbs (g)	3	1%
Dietary Fiber (g)	0	0%
Sugars (g)	2	
Incl. Added Sugars (g)	2	4%
Protein (g)	0	0%
L Theanine (mg)	50	†
Hemp Extract (mg)	20	†
γ-Aminobutyric acid (mg)	5	†
Vitamin C (mg)	0	0%
Vitamin D (mcg)	0	0%
Iron (mg)	0	0%

10. Shelf Life, Storage and Handling

Shelf Life: product dependent

It is recommended to store this product upright, in the original container at temperatures <25°C. Avoid exposure to light.

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11. Allergen Statement

Allergen	Ingredient	Present in Manufacturing Facility
Egg and Egg Products	No	No
Fish and Fish Products	No	No
Milk and Milk Products	No	Yes
Wheat and Wheat Products	No	No
Shellfish and Shellfish Products	No	No
Peanuts and Peanut Products	No	No
Soy and Soy Products	No	No
Tree Nuts and Tree Nut Products	No	No

12. Genetic Modification

OBX does not use genetically modified organisms or material in its products.

13. Microbial Analysis

Test	Action Limit
Total Plate Count (TPC)	<10,000 CFU/g
Yeast & Mold	< 1,000 CFU/g
Bile-Tolerant Gram Negative Bacteria	< 100 CFU/g
Aspergillus spp.	Not Detected
E. Coli	Not Detected
Salmonella	Not Detected
Listeria monocytogenes	Not Detected

Microbial analysis is performed by an accredited third party laboratory using internally developed and validated methods by 300.1 plating/ QPCR. Microbial specifications are based on the American Herbal Products Association (AHPA) recommended microbial limits for finished botanical products issued in 2012 and adjusted as recommended.

14. Mycotoxin Analysis

Test	Action Limit
Total Aflatoxins	< 20 ppb
Ochratoxin A	< 20 ppb

Mycotoxins analysis is performed by an accredited third party laboratory using internally developed and validated methods by ELisa. Mycotoxins specifications are determined by Open Book Extracts.

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15. Heavy Metal Analysis

Test	Action Limit
Arsenic (As)	< 2000 ppb
Cadmium (Cd)	< 820 ppb
Lead (Pb)	< 1200 ppb
Mercury (Hg)	< 400 ppb

Heavy Metal analysis is performed by an accredited third party laboratory using internally developed and validated methods by ICP/MS. Heavy Metal specifications are based on the ICH Harmonized Guideline for Elemental Impurities Q3D, December 2014.

16. Residual Solvent Analysis

Test	Action Limit
1, 2- Dichloroethane	1 ug/g
Benzene	1 ug/g
Chloroform	1 ug/g
Ethylene oxide	1 ug/g
Methylene chloride	1 ug/g
Trichloroethylene	1 ug/g
Acetone	5000 ug/g
Acetonitrile	410 ug/g
Butane	5000 ug/g
Ethanol	5000 ug/g
Ethyl acetate	5000 ug/g
Ethyl ether	5000 ug/g
Heptane	5000 ug/g
Hexane	290 ug/g
Isopropyl alcohol	5000 ug/g
Methanol	3000 ug/g
Pentane	5000 ug/g
Propane	5000 ug/g
Toluene	890 ug/g
Total xylenes (ortho-, meta-, para-)	2170 ug/g

Residual Solvent Analysis is performed by an accredited third party laboratory using internally developed and validated methods by GC/FID and GC/MS. Residual Solvents specifications determined by Open Book Extracts.

17. Pesticides

Test	Action Limit
Analyte list is lab and market specific	Under all established limits

Pesticide is performed by an accredited third party laboratory using internally developed and validated methods by LC-MS.

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MANAGEMENT APPROVALS

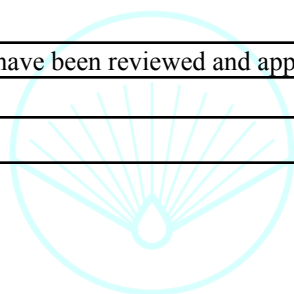
The following company personnel have reviewed and approved the above Product Specification.

Signature and Title	Date
Megan Jones, Associate Food Scientist	
Sarah Lundfelt, Technical Document Specialist	

Client APPROVAL

The following product specifications/ingredients have been reviewed and approved by the client for product development.

Signature and Title	Date



OPEN BOOK EXTRACTS