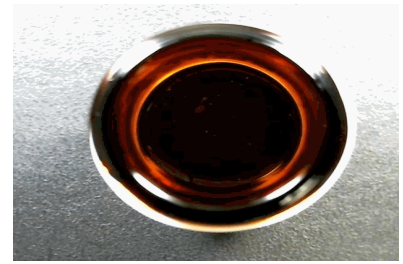


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RDC-184011

Rogue Naturals

AG-R1043473IHH



Confident Cannabis ID: 1811KR0076.2693

Sample ID: M180908-05

Matrix: Cannabinoid Product (liquid)

METRC Batch #:

Sampling Method/SOP: SOP.T.20.010

Date Sampled: 11/20/18 09:00

Date Accepted: 11/20/18

Results Valid Until: 11/20/19

Harvest/Process Lot ID:

Batch ID:

Batch Size:

Unit for Sale:

Harvest/Production Date:

Cannabinoid Analysis

FOR INFORMATIONAL USE ONLY - NOT FOR REGULATORY PURPOSES

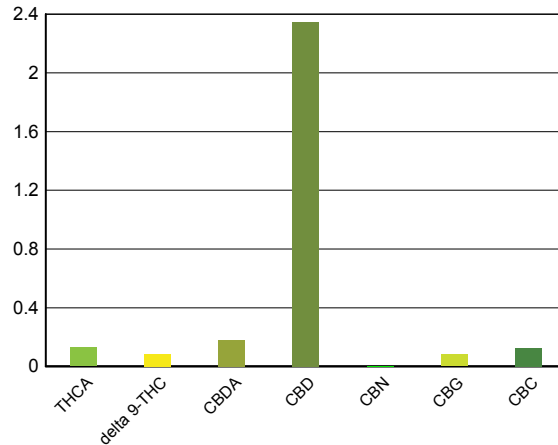
Date/Time Extracted: 11/21/18 11:42

Analysis Method/SOP: SOP.T.40.020

Date/Time Analyzed: 11/22/18 05:56

Sample mass: 0.95g / mL

Cannabinoids	LOQ(%)	mg/g	mg/mL	Cannabinoids Profile
Total THC <small>((THCA*0.877)+Δ9THC)</small>		1.953	1.86	
Total CBD <small>((CBDA*0.877)+CBD)</small>		25.01	23.8	
THCA	0.0100	1.281	1.22	
delta 9-THC	0.0100	0.83	0.789	
delta 8-THC	0.0100	< LOQ	< LOQ	
CBDA	0.0100	1.789	1.70	
CBD	0.0100	23.44	22.3	
CBN	0.0100	< LOQ	< LOQ	
CBG	0.0100	0.806	0.766	
CBC	0.0100	1.253	1.19	
Sum of tested Cannabinoids	0.0100	29.04	27.6	



"Total THC" and "Total CBD" are calculated values and are an Oregon reporting requirement (OAR 333-064-0100). For Cannabinoid analysis, only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes. Cannabinoid values reported for plant matter are dry weight corrected; Oregon Water Activity action level is 0.65Aw; Samples above limit will be highlighted RED; FD = Field Duplicate; LOQ = Limit of Quantitation.

Ian Riversong
 Laboratory Director - 12/11/2018

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RDC-184011

Rogue Naturals

AG-R1043473IHH

Sample ID: M180908-05

METRC Batch #:

Matrix: Cannabinoid Product

Date Sampled: 11/20/18 09:00

Date Accepted: 11/20/18

Results Valid Until: 11/20/19

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Yeast and Mold Enumeration

Date/Time Extracted: 11/27/18 16:17

Analysis Method/SOP: SOP.T.40.040

Date/Time Analyzed: 11/28/18 15:53

Total Colonies: 0.00 CFU/g

About Your Yeast and Mold Results

Botanical materials often have total yeast and mold counts between 1,500 - 7,500 CFU/g. Products that have undergone exposure to solvents, such as alcohol tinctures or concentrated materials extracted with butane, propane, hexane, carbon dioxide, or other organic solvents will typically feature total yeast and mold counts at 0 CFU/g.

The American Herbal Pharmacopoeia recommends herbal products contain no greater than 10,000 CFU/g of total yeasts and molds. Results above 10,000 CFU/g will be highlighted **Red**.

Yeasts vs Molds

Yeasts and molds are both broad types of fungi. Yeasts are unicellular and reproduce by budding, creating a small smooth appearance, whereas molds are multicellular and grow through fungal strands called hyphae, creating a fuzzy appearance often associated with mold.

Yeasts and molds are commonly found on natural products, and not all are harmful. Nevertheless, yeasts and molds, as well as their spores, can cause lung irritation, facilitate allergic reactions, or even present life-threatening conditions for immuno-compromised consumers. For instance, the dark mold, *Aspergillus*, can produce toxic chemical byproducts which can be harmful to human health. *Aspergillus* spores can lodge in small crevices in the lungs and grow, leading to a potentially life-threatening condition called Aspergillosis.

A simple total yeast and mold count can be a great way to monitor for potential health hazards in botanical products and help ensure the safety of consumers.



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RDC-184011

Rogue Naturals
 AG-R1043473IHH

Sample ID: M180908-05

METRC Batch #:

Matrix: Cannabinoid Product

Date Sampled: 11/20/18 09:00

Date Accepted: 11/20/18

Results Valid Until: 11/20/19

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Aerobic Plate Count

Date/Time Extracted: 11/27/18 16:19

Analysis Method/SOP: *** DEFAULT
 SPECIFIC

Date/Time Analyzed: 11/28/18 15:54

Total Colonies: 0.00 CFU/g

About Your Aerobic Plate Count (APC) Results

An aerobic plate count is a measure of the amount of bacteria in a sample that is capable of living in an oxygenated environment.

The American Herbal Pharmacopoeia recommends herbal products contain no greater than 100,000 CFU/g of total viable aerobic bacteria. For CO₂ and solvent based extracts, the AHP recommends a limit of no greater than 10,000 CFU/g.

Aerobic plate count is commonly applied to finish products, particularly foods. Traditionally manufacturers will monitor products for aerobic bacteria on a routine basis to ensure that the microbial load of a product is not increasing.



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Quality Control

Batch: M18K088 - SOP.T.30.050 Prep for Cannabinoids

Blank(M18K088-BLK1)			Extracted: 11/21/18 11:42		Analyzed: 11/22/18 01:36		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
THCA	< LOQ	0.0100 (%)	< LOQ	delta 9-THC	< LOQ	0.0100 (%)	< LOQ
delta 8-THC	< LOQ	0.0100 (%)	< LOQ	CBDA	< LOQ	0.0100 (%)	< LOQ
CBD	< LOQ	0.0100 (%)	< LOQ	CBG	< LOQ	0.0100 (%)	< LOQ
CBN	< LOQ	0.0100 (%)	< LOQ	CBC	< LOQ	0.0100 (%)	< LOQ
Sum of tested Cannabinoid:	< LOQ	0.0100 (%)	< LOQ				

LCS(M18K088-BS1)			Extracted: 11/21/18 11:42		Analyzed: 11/22/18 01:53		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
THCA	105	(%)	70-130	delta 9-THC	103	(%)	70-130
CBDA	105	(%)	70-130	CBD	103	(%)	70-130



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