

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / OLCC 010-1001626980D / www.EVIOLabs.com

FOR INFORMATIONAL USE ONLY - NOT FOR REGULATORY PURPOSES

Haze - SSC - Lifter Blend

Horn Creek Hemp

Info Only

Sample ID: M210106-01

METRC Batch #:

Matrix: Hemp

Date Sampled: NA

Date Accepted: 01/26/21

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Aerobic Plate Count

Date/Time Extracted: 01/29/21 14:22

Analysis Method/SOP: SOP.T.40.046

Date/Time Analyzed: 01/29/21 14:31

Total Colonies: **6700** 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.



Stephanie Moon
Laboratory Director - 2/2/2021

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Matrix: Hemp

Date Sampled: NA

Date Accepted: 01/26/21

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Yeast and Mold Enumeration

Date/Time Extracted: 02/02/21 09:18

Analysis Method/SOP: *** DEFAULT
 SPECIFIC

Date/Time Analyzed: 02/02/21 09:22

Total Yeast and Mold Colonies 4700 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**. Counts greater than 25,000 CFU/g are designated as "**TNTC**" or "Too numerous to count."

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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Quality Control

Batch: M21A107 - SOP.T.40.046 Aerobic Bacteria Count

Blank(M21A107-BLK1)			Extracted: 01/29/21 14:22	Analyzed: 01/29/21 14:31			Recovery Limits
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Aerobic Bacteria	< LOQ	1.00 (cfu/g)	< LOQ				

Batch: M21A108 - SOP.T.40.000 Aerobic Plate Count

Blank(M21A108-BLK1)			Extracted: 01/29/21 14:39	Analyzed: 01/29/21 14:39			Recovery Limits
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Total Aerobic Plate Count	0.00	(cfu/g)	< LOQ				

Batch: M21B005 - SOP.T.40.040 Yeast/Mold

Blank(M21B005-BLK1)			Extracted: 02/02/21 09:18	Analyzed: 02/02/21 09:22			Recovery Limits
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Total Yeast and Mold Coloni	0.00	(cfu/g)	< LOQ				



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