



Fern Valley Farms

Sample ID: G1G0023-02

Matrix: Industrial Hemp

Test ID: 5014259

Source ID:

Date Sampled: 06/30/21

Date Accepted: 06/30/21

Fern Valley Farms

Results at a Glance

Microbials : PASS

METALS : PASS

Mycotoxins : PASS



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LABORATORY

Eric Wendt
Chief Science Officer - 7/9/2021

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Metals Analysis by ICPMS

Date/Time Extracted: 07/07/21 11:08

Analysis Method/SOP: HM-001

Analyte	Result	LOD	LOQ	Units
Arsenic	0.0740	0.0110	0.0500	ug/g
Cadmium	< LOQ	0.00100	0.0500	ug/g
Lead	0.143	0.00150	0.0500	ug/g
Mercury	< LOQ	0.00350	0.0100	ug/g

Metal analyses are not accredited to ORELAP TNI 2009 Quality Standards.
<LOQ - Results below the Limit of Quantitation - Compound not detected

Analysis Subcontracted to Green Leaf Labs - SCCA.



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Mycotoxins by LCMSMS

Date/Time Extracted: 07/07/21 11:06

Analysis Method/SOP: RP-001

Analyte	Result	LOD	LOQ	Units
aflatoxin B1	< LOQ	2.00	5.00	ug/kg
aflatoxin B2	< LOQ	1.00	5.00	ug/kg
aflatoxin G1	< LOQ	1.00	5.00	ug/kg
aflatoxin G2	< LOQ	2.50	5.00	ug/kg
Ochratoxin A	< LOQ	10.0	12.5	ug/kg
Total Aflatoxins	< LOQ	1.00	5.00	ug/kg

Analysis Subcontracted to Green Leaf Labs - SCCA.

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted **Red**.

Microbials by PCR

Date/Time Extracted: 07/07/21 11:02

Analysis Method/SOP: MI-301

Analyte	Result	LOD	LOQ	Units	
Aspergillus Flavus	Pass	0.00	0.00	CFU/g	No detection in 1 gram
Aspergillus Fumigatus	Pass	0.00	0.00	CFU/g	No detection in 1 gram
Aspergillus Niger	Pass	0.00	0.00	CFU/g	No detection in 1 gram
Aspergillus Terreus	Pass	0.00	0.00	CFU/g	No detection in 1 gram
Escherichia Coli	Pass	0.00	0.00	CFU/g	No detection in 1 gram
Salmonella	Pass	0.00	0.00	CFU/g	No detection in 1 gram

Analysis Subcontracted to Green Leaf Labs - SCCA.



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Quality Control Microbials

Batch: 2128021 - Microbials

Blank(2128021-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Aspergillus Fumigatus	Pass	0.00	CFU/g		07/07/21 11:02	07/08/21 15:03	
Aspergillus Terreus	Pass	0.00	CFU/g		07/07/21 11:02	07/08/21 15:03	
Aspergillus Niger	Pass	0.00	CFU/g		07/07/21 11:02	07/08/21 15:03	
Aspergillus Flavus	Pass	0.00	CFU/g		07/07/21 11:02	07/08/21 15:03	

LCS(2128021-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Aspergillus Fumigatus		0.00	CFU/g	0-200	07/07/21 11:02	07/08/21 15:03	
Aspergillus Terreus		0.00	CFU/g	0-200	07/07/21 11:02	07/08/21 15:03	
Aspergillus Niger		0.00	CFU/g	0-200	07/07/21 11:02	07/08/21 15:03	
Aspergillus Flavus		0.00	CFU/g	0-200	07/07/21 11:02	07/08/21 15:03	

Batch: 2128022 - Microbials

Blank(2128022-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Salmonella	Pass	0.00	CFU/g		07/07/21 11:03	07/08/21 14:31	
Escherichia Coli	Pass	0.00	CFU/g		07/07/21 11:03	07/08/21 14:31	

LCS(2128022-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Salmonella		0.00	CFU/g	0-200	07/07/21 11:03	07/08/21 14:31	
Escherichia Coli		0.00	CFU/g	0-200	07/07/21 11:03	07/08/21 14:31	

Batch: 2128023 - Pest

Blank(2128023-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
aflatoxin B1	< LOQ	4.89	ug/kg		07/07/21 11:06	07/08/21 00:34	
aflatoxin B2	< LOQ	4.89	ug/kg		07/07/21 11:06	07/08/21 00:34	
aflatoxin G1	< LOQ	4.89	ug/kg		07/07/21 11:06	07/08/21 00:34	
aflatoxin G2	< LOQ	4.89	ug/kg		07/07/21 11:06	07/08/21 00:34	
Ochratoxin A	< LOQ	12.2	ug/kg		07/07/21 11:06	07/08/21 00:34	

LCS(2128023-BS3)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
aflatoxin B1	113	4.94	ug/kg	70-130	07/07/21 11:06	07/08/21 00:44	
aflatoxin B2	110	4.94	ug/kg	70-130	07/07/21 11:06	07/08/21 00:44	
aflatoxin G1	115	4.94	ug/kg	70-130	07/07/21 11:06	07/08/21 00:44	
aflatoxin G2	116	4.94	ug/kg	70-130	07/07/21 11:06	07/08/21 00:44	
Ochratoxin A	104	12.4	ug/kg	70-130	07/07/21 11:06	07/08/21 00:44	

Batch: 2128024 - Metals

Blank(2128024-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	< LOQ	0.0500	ug/g		07/07/21 11:08	07/08/21 15:36	



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Quality Control Metals Analysis (Continued)

Batch: 2128024 - Metals (Continued)

Blank(2128024-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Lead	< LOQ	0.0500	ug/g		07/07/21 11:08	07/08/21 15:36	
Arsenic	< LOQ	0.0500	ug/g		07/07/21 11:08	07/08/21 15:36	
Mercury	< LOQ	0.0100	ug/g		07/07/21 11:08	07/08/21 15:36	

LCS(2128024-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Cadmium	98.7	0.0500	ug/g	70-130	07/07/21 11:08	07/08/21 15:38	
Lead	101	0.0500	ug/g	70-130	07/07/21 11:08	07/08/21 15:38	
Arsenic	106	0.0500	ug/g	70-130	07/07/21 11:08	07/08/21 15:38	
Mercury	96.1	0.0100	ug/g	70-130	07/07/21 11:08	07/08/21 15:38	



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Notes and Definitions

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- C Interference due to co-elution
- CBD Interference due to co-elution
- CV1 CBD matrix interference on GC Pest chromatography
- CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
- ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISL Internal Standard concentration is above acceptance criteria.
- MSH Internal Standard concentration is below acceptance criteria.
- MSI Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP
- U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
Internal Standard concentration outside control limit due to matrix interference



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