



# Certificate of Analysis

Sample:KN1130002-001

Harvest/Lot ID: 21112GDP

Batch#: 21112GDP

Seed to Sale# N/A

Batch Date: 11/12/21

Sample Size Received: 12 ml

Total Weight/Volume: N/A

Retail Product Size: 1 ml

Ordered : 11/24/21

sampled : 11/24/21

Completed: 12/02/21 Expires: 12/02/22

Sampling Method: SOP Client Method

**PASSED**

Page 1 of 4

Dec 02, 2021 | Grove Inc

1710 Whitney Mesa Drive  
Henderson, NV, 89014, US

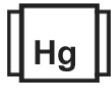
PRODUCT IMAGE



SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
NOT TESTED



Moisture  
NOT TESTED



Terpenes  
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC  
**36.898%**



Total d8-THC  
**46.846%**



Total Cannabinoids  
**84.341%**



Filtration

**PASSED**

Analyzed By	Weight	Extraction date	Extracted By
1692	0.9107g	NA	NA
Analyte	LOD	Result	NA
Filtration and Foreign Material	0.3	ND	ND
Analysis Method -SOP.T.40.013		Batch Date : 11/30/21 12:55:00	
Analytical Batch -KN001624FIL		Reviewed On - 11/30/21 12:57:00	
Instrument Used : E-AMS-138 Microscope			
Running On :			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-213 Stereo Microscope is used for inspection.

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO
%	0.053	ND	<0.01	0.063	0.083	0.066	0.16	ND	0.129	46.846	ND	0.043	ND	34.963	1.935
mg/g	0.53	ND	<0.1	0.63	0.83	0.66	1.6	ND	1.29	468.46	ND	0.43	ND	349.63	19.35
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2074g	11/30/21 04:11:02	143
Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor K=2 for a normal distribution.			
Analytical Batch -KN001625POT Instrument Used : HPLC E-SHI-008		Running On :	
Reviewed On - 12/02/21 08:53:16		Batch Date : 11/30/21 14:41:01	

Reagent	Dilution	Consums. ID
	40	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.)

\*Based on FL action limits.

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Sue Ferguson  
Lab Director  
State License # n/a  
ISO Accreditation #  
17025:2017

*Sue Ferguson*  
Signature

12/02/21  
Signed On



# Certificate of Analysis

**PASSED**
**Grove Inc**

 1710 Whitney Mesa Drive  
 Henderson, NV, 89014, US  
**Telephone:** (702) 817-2113  
**Email:** hadleah@cdb.io


**Sample : KN11130002-001**  
**Harvest/LOT ID: 21112GDP**
**Batch# : 21112GDP**  
**Sampled : 11/24/21**  
**Ordered : 11/24/21**
**Sample Size Received : 12 ml**  
**Total Weight/Volume : N/A**  
**Completed : 12/02/21 Expires: 12/02/22**  
**Sample Method : SOP Client Method**
**Page 2 of 4**



## Pesticides

# PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ACEPHATE	0.01	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
ACEQUINOCL	0.01	ppm	2	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRETHRINS	0.01	ppm	1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PYRIDABEN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPINETORAM	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	3	ND
BOSCALID	0.01	ppm	3	ND	SPIROTETRAMAT	0.01	ppm	3	ND
CARBARYL	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	ND	THIAMETHOXAM	0.01	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPIROSAD	0.01	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND					
CYPERMETHRIN	0.01	ppm	1	ND					
DAMINOZIDE	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.2	ND					
DICHLORVOS	0.01	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.01	ppm	3	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.01	ppm	0.5	ND					
OXAMYL	0.01	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PERMETHRINS	0.01	ppm	1	ND					
PHOSMET	0.01	ppm	0.2	ND					



### Pesticides

# PASSED

<b>Analyzed by</b> 143	<b>Weight</b> 0.529g	<b>Extraction date</b> 12/01/21 09:12:38	<b>Extracted By</b> 143
<b>Analysis Method</b> - SOP.T.30.060, SOP.T.40.060 , Analytical Batch - KN001616PES		<b>Reviewed On</b> - 11/30/21 12:57:00	
<b>Instrument Used</b> : E-SHI-125 Pesticides <b>Running On</b> :		<b>Batch Date</b> : 11/29/21 09:49:59	
<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>	
110021.R03 00021.R4 111521.R03 112221.R23 112221.R24	10	200618634 947.271	

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). Analytes ISO pending. \*Based on FL action limits. \*

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**Sue Ferguson**  
 Lab Director  
 State License # n/a  
 ISO Accreditation #  
 17025:2017

  
 Signature

 12/02/21  
 Signed On



# Certificate of Analysis

**PASSED**
**Grove Inc**

 1710 Whitney Mesa Drive  
 Henderson, NV, 89014, US  
**Telephone:** (702) 817-2113  
**Email:** hadleah@cbd.io

**Sample : KN11130002-001**
**Harvest/LOT ID: 21112GDP**
**Batch# : 21112GDP**
**Sampled : 11/24/21**
**Ordered : 11/24/21**
**Sample Size Received : 12 ml**
**Total Weight/Volume : N/A**
**Completed : 12/02/21 Expires: 12/02/22**
**Sample Method : SOP Client Method**
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**Residual Solvents** **PASSED**

**Residual Solvents** **PASSED**

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	2.323
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND

<b>Analyzed by</b> 138	<b>Weight</b> 0.02438g	<b>Extraction date</b> 12/01/21 04:12:15	<b>Extracted By</b> 138
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**Analysis Method -SOP.T.40.032**  
**Analytical Batch -KN001627SOL** **Reviewed On - 12/02/21 15:44:48**  
**Instrument Used : E-SHI-106 Residual Solvents**  
**Running On :**  
**Batch Date : 12/01/21 08:43:13**

Reagent	Dilution	Consums. ID
	1	R2017.062 G201-062

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). Analytes ISO pending. \*Based on FL action limits.





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**Batch# : 21112GDP**  
**Sampled : 11/24/21**  
**Ordered : 11/24/21**

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**Completed : 12/02/21 Expires: 12/02/22**  
**Sample Method : SOP Client Method**

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**Microbials**

**PASSED**



**Mycotoxins**

**PASSED**

Analyte	LOD	Result
LISTERIA_MONOCYTOGENE		not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_TERREUS		not present in 1 gram.

**Analysis Method -SOP.T.40.043**  
**Analytical Batch -KN001626MIC Batch Date : 11/30/21 16:14:18**  
**Instrument Used : Micro E-HEW-069**  
**Running On :**

Analyzed by	Weight	Extraction date	Extracted By
1692	0.9653g	11/30/21 04:11:56	1692

**Dilution**

1  
Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Analyte	LOD	Units	Result	Action Level
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	

**Analysis Method -SOP.T.30.060, SOP.T.40.060**  
**Analytical Batch -KN001617MYC | Reviewed On - 12/01/21 10:28:54**  
**Instrument Used : E-SHI-125 Mycotoxins**  
**Running On :**  
**Batch Date : 11/29/21 09:51:06**

Analyzed by	Weight	Extraction date	Extracted By
143	0.525g	12/01/21 09:12:48	143

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg. Analytes ISO pending. \*Based on FL action limits.



**Heavy Metals**

**PASSED**

Reagent	Dilution	Consums. ID
100421.02	1	7226/0030021
092121.R22		210221060
031620.03		
080421.R13		
110121.03		
040521.R04		

Metal	LOD	Unit	Result	Action Level
ARSENIC-AS	0.02	ppm	ND	1.5
CADMIUM-CD	0.02	ppm	ND	0.5
MERCURY-HG	0.02	ppm	ND	3
LEAD-PB	0.02	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
138	0.2691g	11/30/21 04:11:56	138

**Analysis Method -SOP.T.40.050, SOP.T.30.052**  
**Analytical Batch -KN001620HEA | Reviewed On - 12/02/21 15:41:26**  
**Instrument Used : Metals ICP/MS**  
**Running On :**  
**Batch Date : 11/29/21 12:46:00**

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. \*Based on FL action limits.

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