



True Northwest, Inc.
Scientists You Can Talk To

Certificate Of Analysis

MANNA PRODUCTION

TNW Sample ID 2111TNW1008.6198

Sample Name: Amnesia

Date Received: 11/11/2021

Matrix: Flower

Date Reported: 11/16/2021

Pretransfer Inventory ID WAJ412678.IN12NVGI

Cient License #: WAJ412678

Leaf Inventory ID WAL6.IN12QKGA

POTENCY			Method HPLC WSLCB	
Parameter	Result	Units	Limits	Pass/Fail
Δ9 THC	1.29	%	n/a	n/a
Δ8 THC	<0.03	%	n/a	n/a
THCA	15.45	%	n/a	n/a
CBD	<0.03	%	n/a	n/a
CBDA	<0.03	%	n/a	n/a
CBN	0.16	%	n/a	n/a
CBC	0.09	%	n/a	n/a
THCV	<0.03	%	n/a	n/a
CBGA	1.12	%	n/a	n/a
CBG	0.11	%	n/a	n/a
Total LCB THC	14.84	%	n/a	n/a
Total LCB CBD	<0.03	%	n/a	n/a
Total LCB Cannabinoids (THC/CBD)	14.84	%	n/a	n/a
Total Cannabinoids uc	18.22	%	n/a	n/a

WATER ACTIVITY			Method Hygrometer WSLCB	
Parameter	Result	Units	Limits	Pass/Fail
Water Activity	0.53	aW	<0.65	Pass

RESIDUAL SOLVENTS			Method GC-MS HS WSLCB		
Parameter	Result	Units	Limits	Pass/Fail	LLQ
Propane	n/a	ppm	5000	n/a	50
Butanes	n/a	ppm	5000	n/a	50
Methanol	n/a	ppm	3000	n/a	100
Pentanes	n/a	ppm	5000	n/a	50
Acetone	n/a	ppm	5000	n/a	50
Isopropanol	n/a	ppm	5000	n/a	100
Dichloromethane	n/a	ppm	600	n/a	50
Hexane	n/a	ppm	290	n/a	50
Ethyl Acetate	n/a	ppm	5000	n/a	50
Chloroform	n/a	ppm	2	n/a	2
Cyclohexane	n/a	ppm	3880	n/a	50
Benzene	n/a	ppm	2	n/a	2
Heptane	n/a	ppm	5000	n/a	50
Toluene	n/a	ppm	890	n/a	50
Total Xylenes	n/a	ppm	2170	n/a	50
Total Residual Solvents	n/a	ppm			

MICROBIOLOGICAL			Method FDA BAM WSLCB	
Parameter	Result	Units	Limits	Pass/Fail
Bile-Tolerant Gram-Negative	nd	CFU/g	<10,000	Pass
E. Coli	nd	CFU/g	*	Pass
Salmonella	nd	CFU/g	*	Pass

MOISTURE			Method Gravimetric WSLCB	
Parameter	Result	Units	Limits	Pass/Fail
Moisture	5.7	%	≤15	Pass

MYCOTOXINS			Method ELISA WSLCB	
Parameter	Result	Units	Limits	Pass/Fail
Aflatoxin	<20	ppb	<20	Pass
Ochratoxin	<20	ppb	<20	Pass

FOREIGN MATTER			Method Visual WSLCB	
Parameter	Result	Units	Limits	Pass/Fail
Stems	nd	%	≤5	Pass
Other	nd	%	≤2	Pass

Terpenes % by weight		Method GC-FID		
Parameter	Result	Parameter	Result	Unit
alpha-Pinene	n/a	Gamma Terpinene	n/a	%
Camphene	n/a	Terpinolene	n/a	%
beta-Myrcene	n/a	Linalool	n/a	%
beta-Pinene	n/a	Isopulegol	n/a	%
delta-3-Carene	n/a	Geraniol	n/a	%
alpha-Terpinene	n/a	beta-Caryophyllene	n/a	%
Ocimene	n/a	alpha-Humulene	n/a	%
D-Limonene	n/a	Nerolidol 1, 2	n/a	%
p-Cymene	n/a	Guaiol	n/a	%
beta-Ocimene	n/a	Caryophyllene Oxide	n/a	%
1,8-Cineole (Eucalyptol)	n/a	alpha-Bisabolol	n/a	%
Total Terpenes	n/a			%

Total THC
14.84

Total CBD
<0.03

Total Cannabinoids
18.22

Microbials
Pass

Mycotoxins
Pass

KEY:

- "nd" = Not Detected
- "n/a" = Not Applicable-Any Amount Is Acceptable
- "ip" = Interference Prevents Determination.
- "uc" = unconverted THCA & CBDA
- "**" = Non-Detect In 1 gm of Sample

Signed by: Jamie Deyman
Title: President

This report was reviewed & approved by:



True Northwest, Inc.
Scientists You Can Talk To

4139 Libby Rd NE
Olympia, WA
(360)352-8688
info@tnwlab.com
www.tnwlab.com
Lic # 0006

MANNA PRODUCTION
5579 Big Springs Ranch Rd
Wenatchee, Washington 98801

Testing results are a certified scientific examination of a single sample, as identified by the Sample ID, provided by the Producer/Processor. True Northwest Laboratory and its staff did not observe or participate in the sample selection process and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch. The results pertain only to the sample tested and no other sample. All methods have been certified by the WSLCB.