



# Certificate of Analysis

Sample: DE10128012-009  
Harvest/Lot ID: 1A4000D0003A8B900000062  
Metric #: 1A4000D0003A8B9000001185  
Seed to Sale #1A4000D0003A8B9000001185  
Batch Date :01/22/21  
Batch#: 1A4000D0003A8B900000062  
Sample Size Received: 1 gram  
Retail Product Size: N/A  
Ordered : 01/28/21  
Sampled : 01/28/21  
Completed: 02/04/21 Expires: 02/04/22  
Sampling Method: SOP-024

**PASSED**

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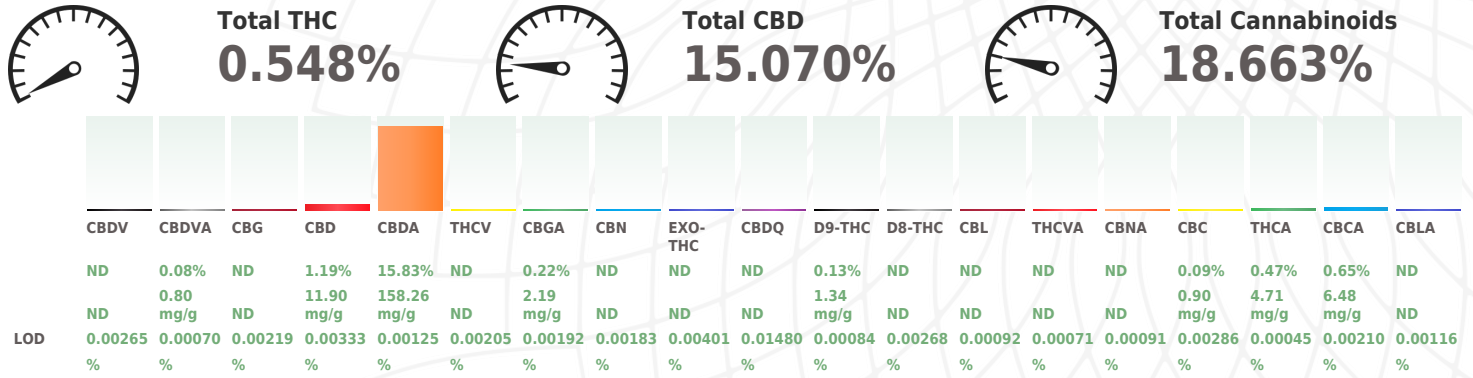
Feb 04, 2021 | Grandpa's Family Farms\*

License # 403H-103408  
PO Box 19445,  
Denver, CO, 80219

**SAFETY RESULTS**

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filtration	Water Activity	Moisture	Homogeneity	Terpenes
NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	TESTED

**CANNABINOID RESULTS**



**Cannabinoid Profile Test**

<b>Analyzed by</b> 667	<b>Weight</b> 0.243g	<b>Extraction date :</b> 02/02/21 02:02:59	<b>Extracted By :</b> 667
<b>Analysis Method -SOP-020 (R15)</b>	<b>Reviewed On - 02/02/21 15:48:30</b>		<b>Batch Date : 02/01/21 09:25:22</b>
<b>Analytical Batch -DE001457POT</b>	<b>Instrument Used : Agilent 1100 "Liger"</b>		<b>Running On : 02/01/21 18:38:59</b>
<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>	<b>Consums. ID</b>
111620.12	40	24161320	923C4-923AK
011421.R06		9214065	5079-525C6-525E
012821.R09		00302923	
020121.R06		R0BB28597	
		280674667	
		12054-036CC-036	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

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**Stephen Goldman**  
Lab Director  
State License #  
405R-00011 405-00008  
ISO Accreditation # 4331.01

Signature

02/04/2021  
Signed On



# Certificate of Analysis

**PASSED**

Grandpa's Family Farms\*

PO Box 19445,  
Denver, CO, 80219  
Telephone: 3037182742  
Email: scott.mertz@hotmail.com  
License #: 403H-103408

Sample : DE10128012-009

Harvest/LOT ID: 1A4000D0003A8B9000000062

Batch# : 1A4000D0003A8B9000000062 Sample Size Received : 1 gram  
Completed : 02/04/21 Expires: 02/04/22  
Sampled : 01/28/21 Sample Method : SOP-024  
Ordered : 01/28/21

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## Terpenes

**TESTED**

Terpenes	LOD	Units	Result (%)	Terpenes	LOD	Units	Result (%)
ALPHA-PINENE	0.002	%	0.087				
CAMPHENE	0.002	%	ND				
BETA-PINENE	0.002	%	0.053				
MYRCENE	0.002	%	0.975				
DELTA-3-CARENE	0.002	%	ND				
ALPHA-TERPINENE	0.002	%	ND				
P-CYMENE	0.002	%	ND				
LIMONENE	0.002	%	0.108				
EUCALYPTOL	0.002	%	ND				
CIS-OCIMENE	0.002	%	0.067				
GAMMA-TERPINENE	0.002	%	ND				
TERPINOLENE	0.002	%	ND				
LINALOOL	0.002	%	0.064				
(-)-ISOPULEGOL	0.002	%	ND				
BORNEOL	0.002	%	ND				
MENTHOL	0.002	%	ND				
ALPHA-TERPINEOL	0.002	%	<0.020				
PULEGONE	0.002	%	ND				
GERANIOL	0.002	%	ND				
2-ETHYL-FENCHOL	0.002	%	ND				
BETA-CARYOPHYLLENE	0.002	%	0.505				
HUMULENE	0.002	%	0.119				
BISABOLENE	0.002	%	ND				
NEROLIDOL	0.002	%	<0.020				
(-)-CARYOPHYLLENE OXIDE	0.002	%	0.026				
(-)-GUAIOL	0.002	%	0.092				
(-)-ALPHA-BISABOLOL	0.002	%	0.109				
<b>Total</b>		2.209					



## Terpenes

**TESTED**

Analyzed by: 7 Weight: 0.243g Extraction date: NA Extracted By: NA  
Analysis Method -SOP-067 (R0) Analytical Batch -DE001460TER Reviewed On - 02/04/21 13:04:00  
Instrument Used : GC 6890 Running On : Batch Date : 02/01/21 14:33:45

Reagent Dilution Consums. ID  
40

Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.

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