



PURE ANALYTICS™
CANNABIS POTENCY & SAFETY SCREENING

Medical Cannabis Test Report

Customer	Emerald Family Farms
Sample ID's	EFF0012-1
Report Date	1-Feb-17

Results Summary

Cannabinoid Results

Sample I.D.	Sample Name	THC	CBD	CBN	CBC	CBG	THCV	CBDV	Total Cannabinoids
EFF0012-1	Cotton Candy (GCC)	66.7%	0.6%	0.9%	1.0%	2.5%	0.6%	ND	72.2%

*ND: Not Detected (<0.05%)

Results reported on a percent by weight basis using the full moisture content weight of the product as received by Pure Analytics.

Analytical Method: Methanol extraction using sonication with analysis by GC-FID for combustibles (flower and concentrates) and HPLC-DAD for orally ingestible samples.

Results Summary

Mold and Fungus Results

Sample I.D.	Sample Name	Mold or Fungus Present?
EFF0012-1	Cotton Candy (GCC)	NO

Analytical Method: Microscopic inspection for actively growing mold and fungus colonies. Results reported as Mild, Moderate or Severe. Products with positive results are not recommended for patient consumption.

Results Summary

Pesticide and Chemical Residue Screen Results

Sample I.D.	Sample Name	Pesticide or Chemical Residues Detected
EFF0012-1	Cotton Candy (GCC)	ND

*ND: Not Detected

Pesticide and Chemical Residue Screen detects all chlorinated, brominated and fluorinated compounds. This includes many commonly used insecticides, miticides and fungicides. Specific levels of compounds on our list will be reported with quantified results, all other compounds will be listed as detected or not detected.

Analytical Method: Acetone extraction using sonication with analysis by GC-ECD.

Results Summary

Terpene Results

Sample I.D.	Sample Name	alpha-Pinene	Camphene	beta-Pinene	Myrcene	3-Carene	R-Limonene	Eucalyptol	Ocimene	gamma-Terpinene	Terpinolene	Linalool	Fenchol	(+)-Puleone	Menthol	Borneol	alpha-Terpineol	Geraniol	beta-Caryophyllene	alpha-Humulene	Valencene	Farnesene	Nerolidol	Guaiol	alpha-Bisabolol	Eicosane	Total
EFF0012-1	Cotton Candy (GCC)	0.04%	ND	0.05%	0.25%	ND	0.20%	ND	ND	0.01%	0.23%	0.16%	0.09%	ND	ND	ND	0.26%	ND	0.82%	0.25%	0.07%	0.44%	2.75%	0.14%	0.21%	ND	5.98%

*ND: Not Detected (<0.01%)

Results reported on a percent by weight basis using the full moisture content weight of the product as received by Pure Analytics.

Analytical Method: Methanol extraction using sonication with Analysis by GC-FID

Results Summary

Residual Solvent and Volatiles Results

Sample I.D.	Sample Name	<i>n</i> -butane	<i>n</i> -pentane	acetone	ethanol	2-methyl butane	<i>n</i> -hexane	methane	2-propanol	2-methyl propane	3-methyl-1-butanol	1-butanol	1-pentanol	2-butanol	1-propanol	anisole	ethyl acetate	<i>n</i> -Heptane	2-methyl-1-propanol	tert-butyl methyl ether (M	ether	ethyl formate	4-methyl-2-pentanone	isopropylbenzene	propane	1-butanone	Total	
EFF0012-1	Cotton Candy (GCC)	####	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	109

*ND: Not Detected (<1 ppm)

Results reported on a parts-per-million basis, ppm may also be expressed as mg of contaminant per kilogram of material tested.

Analytical Method: Analysis by Full Evaporation Technique Headspace Measurement using GC-FID

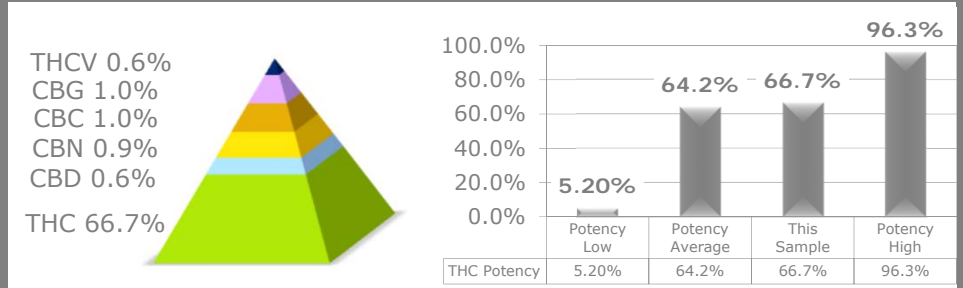
Medicinal Cannabis Certificate of Analysis

Sample Information

Member Club	Emerald Family Farms
Sample Name	Cotton Candy (GCC)
Sample I.D.	EFF0012-1
Sample Type	Concentrate
Date Received	1/27/2017
Date Tested	1/30-1/31/17
Date Reported	2/1/2017
QC Batch(es)	PA11953-955, 957
Test(s) Performed	Cannabinoids, Mold/Fungus, Pesticides, Terpenes, RSA



Potency Trend Analysis* for: Concentrate



Total THC	Total CBD	CBN	Total CBC	Total CBG	THCV	CBDV	Total Cannabinoid
66.7%	0.6%	0.9%	1.0%	2.5%	0.6%	ND	72.2%
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
667.3	5.8	9.0	9.8	24.5	5.7	ND	722.1
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA

Physical Inspection Results

Pests Detected	No
Foreign Material	No
Resin Gland Density	NA
Resin Gland Color %	NA Amber NA Clear
Resin Gland Clarity %	NA Opaque NA Translucent
Maturity Rating	NA

Safety Screening Results

Mold and Fungus Screening		Pesticide and Chemical Residue Analysis	
Not Detected		Not Detected	
Result- ND	Compound	Result	
Rating- NA	Myclobutanil	ND	
	Paclobutrazole	ND	
	Bifenthrin	ND	
	Permethrin	ND	
	β-Cyfluthrin	ND	
	Cypermethrin	ND	
	Fipronil	ND	
	λ-Cyhalothrin	ND	

Terpene Analysis:

alpha-Pinene	Camphene	beta-Pinene	Myrcene
0.04%	ND	0.05%	0.25%
3-Carene	R-Limonene	Eucalyptol	Ocimene
ND	0.20%	ND	ND
g-Terpinene	Terpinolene	Linalool	Fenchol
0.01%	0.23%	0.16%	0.09%
(+)-Pulegone	Menthol	Borneol	alpha-Terpineol
ND	ND	ND	0.26%
Geraniol	B-Caryophyllene	alpha-Humulene	Valencene
ND	0.82%	0.25%	0.07%
Farnesene	Nerolidol	Guaiol	alpha-Bisabolol
0.44%	2.75%	0.14%	0.21%
Eicosane	Total		
ND	5.98%		

ND: Not Detected

N/A: Not Applicable

*Trends based on Pure Analytics, LLC historical data

Medicinal Cannabis Certificate of Analysis

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Sample Name	Cotton Candy (GCC)
Sample I.D.	EFF0012-1
Sample Type	Concentrate
Date Received	1/27/2017
Date Tested	1/30-1/31/17
Date Reported	2/1/2017
QC Batch(es)	PA11953-955, 957
Test(s) Performed	Cannabinoids, Mold/Fungus, Pesticides, Terpenes, RSA; RUSH

Residual Solvent and Volatiles Analysis

Compound	Result (mg/kg)
n-butane	109
n-pentane	ND
acetone	ND
ethanol	ND
2-methyl butane	ND
n-hexane	ND
methane	ND
2-propanol	ND
2-methyl propane	ND
3-methyl-1-butanol	ND
1-butanol	ND
1-pentanol	ND
2-butanol	ND
1-propanol	ND
anisole	ND
ethyl acetate	ND
n-heptane	ND
2-methyl-1-propanol	ND
tert-butyl methyl ether	ND
ether	ND
ethyl formate	ND
4-methyl-2-pentanone	ND
isopropylbenzene	ND
propane	ND
1-butanone	ND
Total	109