

Date: 1/13/14

9755 SW Commerce Circle Suite B-3
 Wilsonville, OR 97070
 503-625-6593

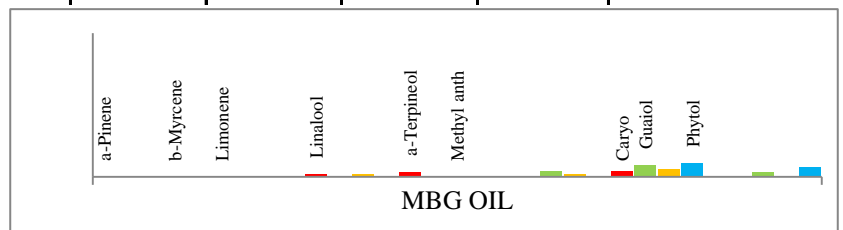
UDOXI Scientific

Terpene results for the sample received on 1/9/14.

Analysis by GC/MS (Mod 8270)

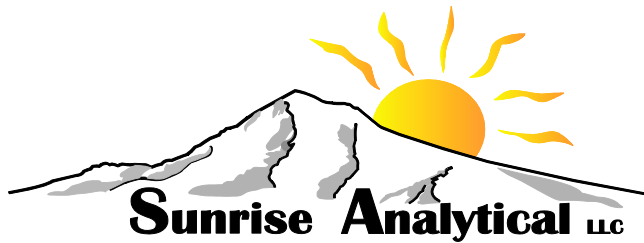
Sample Name: Lab ID:	MBG		Batch QC	Batch QC	Batch QC	Detection Limit
	Oil					
14A009-01			14A004-04	14A004-04dup	140002-BLK	
alpha-Pinene	ND		0.4	0.4	ND	0.5 mg/g
Camphene	ND		ND	ND	ND	0.5 mg/g
beta-Pinene	ND		0.6	0.5	ND	0.5 mg/g
beta-Myrcene	ND		6.2	5.8	ND	0.5 mg/g
p-Cymene	ND		ND	ND	ND	0.5 mg/g
Limonene	ND		5.9	5.2	ND	0.5 mg/g
3-Carene	ND		ND	ND	ND	0.5 mg/g
2-Carene	ND		ND	ND	ND	0.5 mg/g
Eucalyptol	ND		ND	ND	ND	0.5 mg/g
Linalool	0.5		2.4	2.4	ND	0.5 mg/g
beta-Terpineol	ND		ND	ND	ND	0.5 mg/g
Borneol	0.6		ND	ND	ND	0.5 mg/g
Terpinen-4-ol	ND		ND	ND	ND	0.5 mg/g
alpha-Terpineol	1.0		0.7	0.7	ND	0.5 mg/g
gamma-Terpineol	ND		ND	ND	ND	0.5 mg/g
Methyl anthranilate	ND		ND	ND	ND	0.5 mg/g
?*-3-Carene	ND		ND	ND	ND	0.5 mg/g
?*unknown1	ND		ND	ND	ND	0.5 mg/g
?*-2-Carene	ND		ND	ND	ND	0.5 mg/g
?*-triMeHeptanol	1.3		0.7	0.7	ND	0.5 mg/g
?*-cis-2-Pinanol(v)	0.6		0.5	0.5	ND	0.5 mg/g
?*-Butanoic acid,hex es	ND		ND	ND	ND	0.5 mg/g
?*Total Monoterpenes	7.4		21.7	20.5	ND	0.5 mg/g
Caryophyllene	1.2		11.6	11.5	ND	0.5 mg/g
Guaiol	2.4		ND	ND	ND	0.5 mg/g
alpha-Bisabolol	1.6		0.6	0.7	ND	0.5 mg/g
Phytol	2.9		0.6	0.7	ND	0.5 mg/g
?**Germacrene B	ND		1.1	1.0	ND	0.5 mg/g
?**beta-Caryophyllene	ND		1.1	1.1	ND	0.5 mg/g
?**alpha-Caryophyllene	0.9		4.3	4.4	ND	0.5 mg/g
?**alpha-Farnesene	ND		0.7	0.9	ND	0.5 mg/g
?**2-Azulene	2.1		8.2	8.3	ND	0.5 mg/g
**?*Total Sesquiterpenes	16.5		42.5	43.2	ND	0.5 mg/g
Water (% moisture)	0.0%		4.6%	4.6%	NA	±0.2%
Surrogate % Recovery:	98%		99%	99%	87%	d6-Phenol
Extraction Date:	1/9/14		1/9/14	1/9/14	1/9/14	
Analysis Date:	1/10/14		1/10/14	1/10/14	1/10/14	

NA = Not Applicable ND = Not Detected
 Detection Limit is based on the dry weight equivalent.
 -BLK = The method blank associated with this batch.
 -dup = The method duplicate associated with this batch.
 *Compound concentration is estimated based on linalool.
 **Compound concentration is estimated based on caryophyllene.
 ? Compound has not been verified by standard.



Analyst: Pat Marshall
 Sr. Chemist

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Cannabinoid results for the sample received on 1/9/14.

Analysis by GC/MS (Mod 8270)

Sample Name: Lab ID:	MBG			Batch QC		Batch QC 140002-BLK	Detection Limit
	Oil			14A004-04	14A004-04dup		
THC	244			274	271	ND	0.5 mg/g
CBD Cannabidiol	413			0.8	0.8	ND	0.5 mg/g
CBN Cannabinol	8.0			1.0	1.0	ND	0.5 mg/g
*CBC Cannabichromene	1.1			ND	ND	ND	0.5 mg/g
*CBC2 Cannabichromene	ND			ND	ND	ND	0.5 mg/g
*CBC3 Cannabichromene	ND			ND	ND	ND	0.5 mg/g
*CBC4 Cannabichromene	10.4			5.1	5.5	ND	0.5 mg/g
*THCV Tetrahydrocannabivarin	5.0			1.4	1.5	ND	0.5 mg/g
*CBG Cannabigerol	31			15	18	ND	0.5 mg/g
*CBDV Cannabidivariol	2.2			ND	ND	ND	0.5 mg/g
*delta-8-THC	8.0			ND	ND	ND	0.5 mg/g
*?THC-C4	ND			1.0	1.0	ND	0.5 mg/g
*CBP ?Cannabipat	ND			0.3	0.4	ND	0.5 mg/g
*CB1 ?Cannabi-one	ND			ND	ND	ND	0.5 mg/g
*CB2 ?THC-C1	ND			ND	ND	ND	0.5 mg/g
*CB3 ?Cannabi-three	ND			0.6	0.6	ND	0.5 mg/g
*CB4 ?Cannabi-four	ND			5.4	5.7	ND	0.5 mg/g
*CB5 ?Cannabi-five	2.3			0.8	0.9	ND	0.5 mg/g
*CB6 ?Cannabi-six	ND			ND	ND	ND	0.5 mg/g
*CB7 ?Cannabi-seven	ND			ND	ND	ND	0.5 mg/g
*CB8 ?Cannabi-eight	ND			ND	ND	ND	0.5 mg/g
*CB9 ?Cannabi-nine	ND			ND	ND	ND	0.5 mg/g
*CB10 ?Cannabi-ten	ND			ND	ND	ND	0.5 mg/g
Water (% moisture)	0.0%			4.6%	4.6%	NA	±0.2%
Surrogate % Recovery:	98%			99%	99%	87%	d6-Phenol
Extraction Date:	1/9/14			1/9/14	1/9/14	1/9/14	
Analysis Date:	1/10/14			1/10/14	1/10/14	1/10/14	

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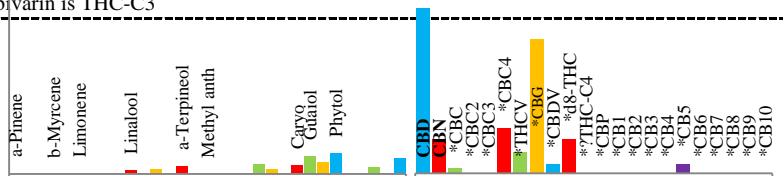
*Compound concentration is estimated based on CBD.

? Compound has not been verified. *THCV Tetrahydrocannabivarin is THC-C3

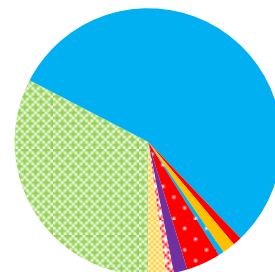
Analyst: Pat Marshall
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MBG OIL
Analysis Date: 1/10/14



THC 24.4%
CBD 41.3%
CBN 0.8%
 total CBC 1.2%
 THCV 0.5%
 CBG 3.1%
 Other CB's 1.2%
 Monoterpenes 0.7%
 Sesquiterpenes 1.6%
 Water 0%

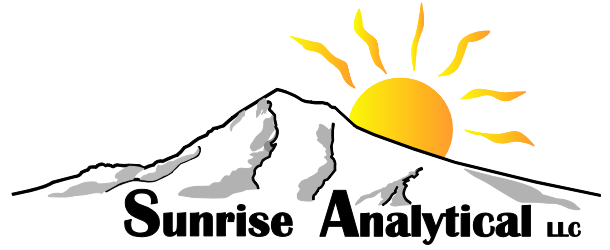


MBG OIL

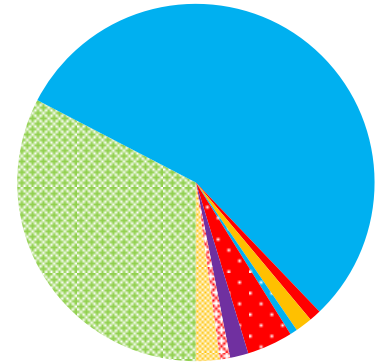
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UV/Vis Inspection:

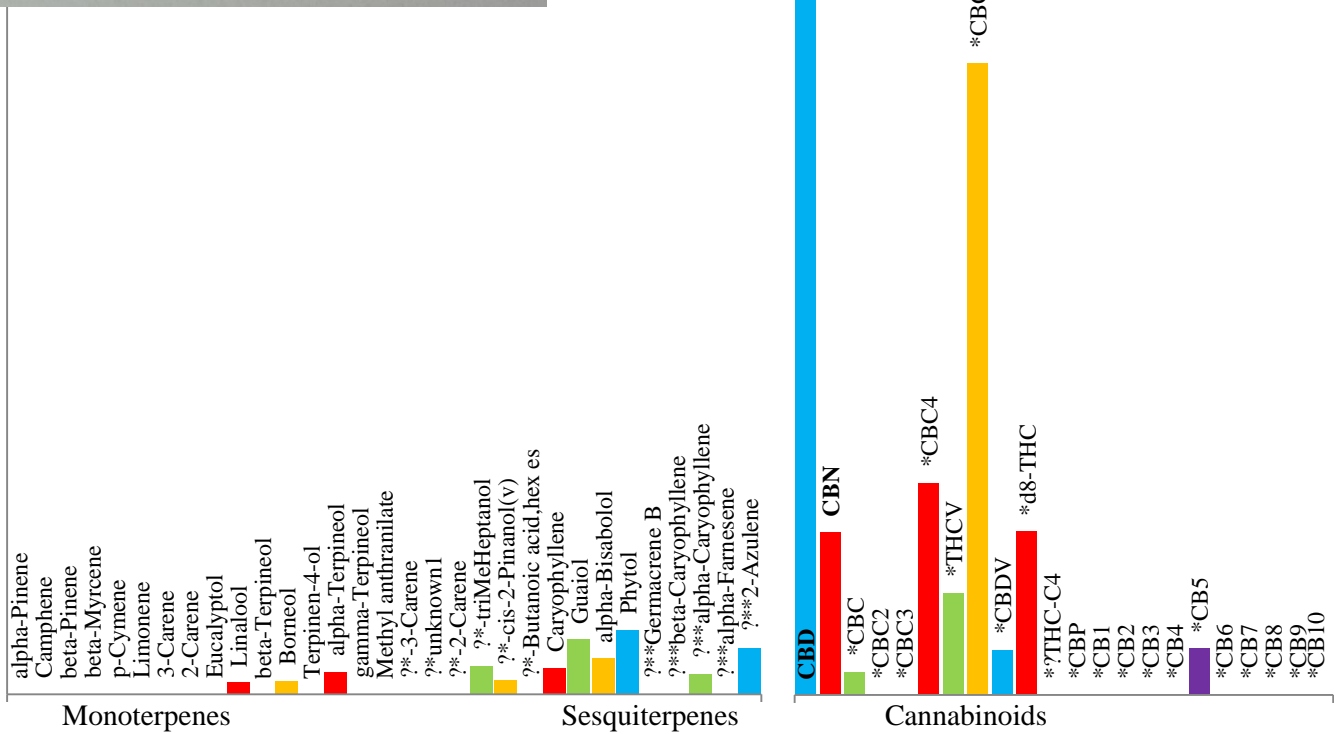
Method 8270:



THC	24.4%
CBD	41.3%
CBN	0.8%
total CBC	1.2%
THCV	0.5%
CBG	3.1%
Other CB's	1.2%
Monoterpenes	0.7%
Sesquiterpenes	1.6%
Water	0%



Pie Chart based on Total Extractables



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