

Hemp Essential Oil

 SAMPLE TYPE
Essential Oil

 RECEIVED **12/14/18**
 REPORTED **12/24/18**

 CUSTOMER
 Hemp Traders

 STEEP HILL ID
BK62771

 BATCH ID
12-10-18

 DENSITY **0.88 g/mL**

TEST NAME

Extended Terpenes

METHOD NAME

SOP-069

Terpene	mg/mL	%	mg/g	LOD mg/g	LOQ mg/g
α -Bisabolol	ND	ND	ND	0.159	0.48
endo-Borneol	ND	ND	ND	0.136	0.41
Camphene	ND	ND	ND	0.158	0.47
Camphor	ND	ND	ND	0.159	0.48
3-Carene	ND	ND	ND	0.160	0.48
Caryophyllene Oxide	ND	ND	ND	0.159	0.48
β -Caryophyllene	0.97	0.111	1.11	0.159	0.48
α -Cedrene	ND	ND	ND	0.135	0.41
Cedrol	ND	ND	ND	0.159	0.48
Citronellol	ND	ND	ND	0.136	0.41
Eucalyptol	ND	ND	ND	0.160	0.48
α -Farnesene	ND	ND	ND	0.151	0.45
β -Farnesene	0.90	0.103	1.03	0.25	0.77
Fenchol	ND	ND	ND	0.137	0.41
Fenchone	ND	ND	ND	0.136	0.41

ND - Not Detected

 LOD - Limit of Detection
 LOQ - Limit of Quantitation

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Terpene	mg/mL	%	mg/g	LOD mg/g	LOQ mg/g
Geraniol	ND	ND	ND	1.02	3.1
Geranyl Acetate	ND	ND	ND	0.31	0.94
Guaiol	ND	ND	ND	0.137	0.41
α -Humulene	0.37	0.042	0.42	0.136	0.41
Isoborneol	ND	ND	ND	0.159	0.48
Isopulegol	ND	ND	ND	0.159	0.48
Limonene	ND	ND	ND	0.135	0.41
Linalool	ND	ND	ND	0.159	0.48
Menthol	ND	ND	ND	0.159	0.48
β -Myrcene	1.99	0.23	2.3	0.159	0.48
Nerol	ND	ND	ND	0.80	2.4
<i>cis</i> -Nerolidol	ND	ND	ND	0.159	0.48
<i>trans</i> -Nerolidol	ND	ND	ND	0.27	0.80
<i>cis</i> - β -Ocimene	0.83	0.095	0.95	0.113	0.34
<i>trans</i> - β -Ocimene	ND	ND	ND	0.046	0.139
α -Phellandrene	ND	ND	ND	0.159	0.48
Phytol 1	ND	ND	ND	0.045	0.136
Phytol 2	ND	ND	ND	0.095	0.29
α -Pinene	0.55	0.063	0.63	0.187	0.56
β -Pinene	< LOQ	< LOQ	< LOQ	0.136	0.41
Pulegone	ND	ND	ND	0.137	0.41
Sabinene	ND	ND	ND	0.136	0.41
Sabinene Hydrate	ND	ND	ND	0.136	0.41
α -Terpinene	ND	ND	ND	0.136	0.41
γ -Terpinene	ND	ND	ND	0.135	0.41

ND - Not Detected
 < LOQ - Below Limit of Quantitation

LOD - Limit of Detection
 LOQ - Limit of Quantitation

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Terpene	mg/mL	%	mg/g	LOD mg/g	LOQ mg/g
α -Terpineol	ND	ND	ND	0.31	0.94
Terpinolene	0.92	0.105	1.05	0.135	0.41
Valencene	ND	ND	ND	0.159	0.48
Total Measured	6.53	0.75	7.5		

ND - Not Detected

LOD - Limit of Detection
LOQ - Limit of Quantitation

CERTIFICATION



AMY GOODWIN PH.D
LAB DIRECTOR

CERTIFICATE #: BK62771-4
REVISION: TRP-001 Rev. 3.

The above results relate only to the samples tested and for the specific tests conducted. Steep Hill grants permission to reproduce this document in full only.