

Harlequin

 SAMPLE TYPE
Essential Oil

 RECEIVED **07/31/18**
 REPORTED **08/06/18**

 CUSTOMER
 Eybna Technologies

 STEEP HILL ID
BK56239

 BATCH ID
6-09-00010

 DENSITY **0.89 g/mL**

TEST NAME

Extended Terpenes

 METHOD NAME
 SOP-024

Terpene	mg/mL	%	mg/g	LOD mg/g	LOQ mg/g
α -Bisabolol	17.3	1.95	19.5	0.00020	0.00048
endo-Borneol	8.0	0.90	9.0	0.00020	0.00047
Camphene	4.3	0.49	4.9	0.00020	0.00048
Camphor	ND	ND	ND	0.00020	0.00048
3-Carene	ND	ND	ND	0.00020	0.00047
Caryophyllene Oxide	13.2	1.49	14.9	0.00020	0.00049
β -Caryophyllene	15.5	1.74	17.4	0.00020	0.00047
α -Cedrene	ND	ND	ND	0.00020	0.00048
Cedrol	ND	ND	ND	0.00020	0.00048
Citronellol	ND	ND	ND	0.00020	0.00048
Eucalyptol	ND	ND	ND	0.00020	0.00049
α -Farnesene	ND	ND	ND	0.000100	0.00029
β -Farnesene	ND	ND	ND	0.000100	0.00039
Fenchol	13.1	1.47	14.7	0.00020	0.00048
Fenchone	ND	ND	ND	0.00020	0.00048

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	0.00020	0.00047
Geranyl Acetate	ND	ND	ND	0.00020	0.00048
Guaiol	ND	ND	ND	0.00030	0.00098
α -Humulene	16.4	1.84	18.4	0.00020	0.00048
Isoborneol	ND	ND	ND	0.00020	0.00048
Isopulegol	ND	ND	ND	0.00020	0.00049
D-Limonene	47	5.3	53	0.00020	0.00048
Linalool	26	2.9	29	0.00020	0.00047
Menthol	ND	ND	ND	0.00020	0.00048
β -Myrcene	195	22	220	0.00020	0.00049
Nerol	ND	ND	ND	0.00020	0.00049
cis-Nerolidol	ND	ND	ND	0.00020	0.00047
trans-Nerolidol	ND	ND	ND	0.000030	0.000090
cis- β -Ocimene	ND	ND	ND	0.000100	0.00036
trans- β -Ocimene	ND	ND	ND	0.000040	0.000130
α -Phellandrene	ND	ND	ND	0.00020	0.00049
Phytol 1	ND	ND	ND	0.000100	0.00030
Phytol 2	ND	ND	ND	0.000100	0.00032
α -Pinene	460	52	520	0.00020	0.00048
β -Pinene	4.9	0.56	5.6	0.00020	0.00048
Pulegone	ND	ND	ND	0.00020	0.00048
Sabinene	0.25	0.028	0.28	0.000030	0.000090
Sabinene Hydrate	ND	ND	ND	0.000030	0.000090
α -Terpinene	ND	ND	ND	0.00020	0.00048
γ -Terpinene	ND	ND	ND	0.00020	0.00048

ND - Not Detected

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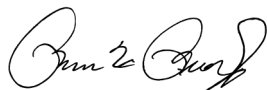
SOP-024

Terpene	mg/mL	%	mg/g	LOD mg/g	LOQ mg/g
α -Terpineol	15.1	1.70	17.0	0.00020	0.00047
Terpinolene	37	4.1	41	0.00020	0.00047
Valencene	ND	ND	ND	0.00020	0.00049
Total Measured	873	98	985		

ND - Not Detected

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CERTIFICATION



BRIAN BRANDLEY PH.D
CHIEF OF LAB OPERATIONS

CERTIFICATE #: BK56239-5

REVISION: TRP-001 Rev. 3.

This certificate is issued in accordance with Steep Hill standard operating procedure SOP-024. 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.