

# Jack Herer

 SAMPLE TYPE  
**Essential Oil**

 RECEIVED **07/31/18**  
 REPORTED **08/21/18**

 CUSTOMER  
 Eybna Technologies

 STEEP HILL ID  
**BK56246**

 BATCH ID  
**6-12-0010**

 DENSITY **0.88 g/mL**

TEST NAME

## Extended Terpenes

 METHOD NAME  
 SOP-024

Terpene	mg/mL	%	mg/g	LOD mg/g	LOQ mg/g
$\alpha$ -Bisabolol	<b>1.17</b>	<b>0.134</b>	<b>1.34</b>	0.00020	0.00048
endo-Borneol	ND	ND	ND	0.00020	0.00047
Camphene	<b>0.66</b>	<b>0.075</b>	<b>0.75</b>	0.00020	0.00048
Camphor	ND	ND	ND	0.00020	0.00048
3-Carene	<b>9.8</b>	<b>1.13</b>	<b>11.3</b>	0.00020	0.00047
Caryophyllene Oxide	<b>4.5</b>	<b>0.52</b>	<b>5.2</b>	0.00020	0.00049
$\beta$ -Caryophyllene	<b>98</b>	<b>11.2</b>	<b>112</b>	0.00020	0.00047
$\alpha$ -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	<b>0.61</b>	<b>0.070</b>	<b>0.70</b>	0.00020	0.00049
$\alpha$ -Farnesene	ND	ND	ND	0.000100	0.00029
$\beta$ -Farnesene	ND	ND	ND	0.000100	0.00039
Fenchol	<b>2.2</b>	<b>0.25</b>	<b>2.5</b>	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
$\alpha$ -Humulene	<b>13.3</b>	<b>1.52</b>	<b>15.2</b>	0.00020	0.00048
Isoborneol	ND	ND	ND	0.00020	0.00048
Isopulegol	ND	ND	ND	0.00020	0.00049
Limonene	<b>59</b>	<b>6.7</b>	<b>67</b>	0.00020	0.00048
Linalool	<b>3.7</b>	<b>0.42</b>	<b>4.2</b>	0.00020	0.00047
Menthol	ND	ND	ND	0.00020	0.00048
$\beta$ -Myrcene	<b>64</b>	<b>7.3</b>	<b>73</b>	0.00020	0.00049
Nerol	ND	ND	ND	0.00020	0.00049
cis-Nerolidol	ND	ND	ND	0.00020	0.00047
trans-Nerolidol	<b>15.1</b>	<b>1.73</b>	<b>17.3</b>	0.00030	0.00090
cis- $\beta$ -Ocimene	< LOQ			0.000100	0.00036
trans- $\beta$ -Ocimene	<b>35</b>	<b>4.0</b>	<b>40.</b>	0.00040	0.00130
$\alpha$ -Phellandrene	<b>15.6</b>	<b>1.78</b>	<b>17.8</b>	0.00020	0.00049
Phytol 1	<b>0.90</b>	<b>0.102</b>	<b>1.02</b>	0.000100	0.00030
Phytol 2	<b>5.3</b>	<b>0.60</b>	<b>6.0</b>	0.000100	0.00032
$\alpha$ -Pinene	<b>10.9</b>	<b>1.25</b>	<b>12.5</b>	0.00020	0.00048
$\beta$ -Pinene	<b>26</b>	<b>3.0</b>	<b>30.</b>	0.00020	0.00048
Pulegone	<b>0.69</b>	<b>0.079</b>	<b>0.79</b>	0.00020	0.00048
Sabinene	<b>0.118</b>	<b>0.0134</b>	<b>0.134</b>	0.00030	0.00090
Sabinene Hydrate	ND	ND	ND	0.00030	0.00090
$\alpha$ -Terpinene	<b>9.8</b>	<b>1.11</b>	<b>11.1</b>	0.00020	0.00048
$\gamma$ -Terpinene	< LOQ			0.00020	0.00048

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
$\alpha$ -Terpineol	<b>11.8</b>	<b>1.35</b>	<b>13.5</b>	0.00020	0.00047
Terpinolene	<b>230</b>	<b>26</b>	<b>260</b>	0.00020	0.00047
Valencene	ND	ND	ND	0.00020	0.00049
<b>Total Measured</b>	<b>618</b>	<b>70</b>	<b>703</b>		

ND - Not Detected

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LOQ - Limit of Quantitation

CERTIFICATION



**BRIAN BRANDLEY PH.D**  
CHIEF OF LAB OPERATIONS

CERTIFICATE #: BK56246-8

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.*