

# TEST REPORT

Sample name: Peppermint Essential Oil  
 Sample code : K62  
 Client: Kephass, JSC.  
 Date of analysis: September 23, 2019  
 Analytic method\*\*: GC-MS

No.	Specification	Result * (%)
01.	n-heptane	0.12
02.	3-hexanone	0.02
03.	2-hexanone	0.03
04.	1,6-octadiene, 5,7-dimethyl-,(r)-	0.03
05.	$\alpha$ -thujene	0.03
06.	$\alpha$ -pinene	0.56
07.	trans-3-methylcyclohexanol	0.09
08.	1-heptanol, 4-methyl-	0.1
09.	sabinene	0.14
10.	2- $\beta$ -pinene	0.79
11.	$\beta$ -myrcene	0.06
12.	3-octanol	0.25
13.	p-cymene	0.07
14.	d-limonene	2.48
15.	eucalyptol	0.15
16.	$\delta$ -2-carene	0.04
17.	linalool l	0.14
18.	isopulegol	0.42
19.	d-menthone	9.5
20.	d-menthone	4.84
21.	(+)-neomenthol	3.44
22.	isopulegone	0.81
23.	menthol	67.53
24.	isomenthol	0.72
25.	(+)-isomenthol	0.78
26.	3-cyclohexene-1-methanol, .alpha.,.alpha.4-trimethyl-	0.51

1. Analysis result is valid only for the sample sent by customer

2. Any citation taken from these results are prohibited without agreement of Institute for Research & Development of Natural Products

No.	Specification	Result * (%)
27.	cyclohexanone, 5-methyl-2-(1-methylethylidene)-	0.42
28.	piperitone	0.53
29.	1-decanol	0.2
30.	1s-neomenthyl acetate	3.59
31.	bicycloelemene	0.08
32.	$\beta$ -bourbonene	0.12
33.	(-)- $\beta$ -elemene	0.05
34.	trans-caryophyllene	0.52
35.	germacrene d	0.15

**Notes:**

- \* result determined by peak area
- \*\* GC-MS identified by comparison with the corresponding standard spectrum
- \*\*\* result < 0.01%

ANALYST



Vu Ngoc Ha



Hanoi, September 25, 2019  
 DIRECTOR  
 PHÓ VIỆN TRƯỞNG VIỆN NGHIÊN CỨU VÀ  
 PHÁT TRIỂN ỨNG DỤNG CÁC HỢP CHẤT THIÊN NHIÊN  
 PGS. TS *Cung Thị Tố Quỳnh*