

**Certified Organic Frankincense (*Boswellia carterii*) Essential Oil GC Analysis  
for Lot BCE000106-080519**

Retention time (mins)	Identified Compound	Mean % Peak Area
2.85	Hashishene	0.27
3.01	$\alpha$ -Thujene	1.16
3.13	$\alpha$ -Pinene	41.29
3.27	Camphene	0.75
3.36	Thujadiene	0.45
3.69*	$\beta$ -Pinene	1.38
3.69*	Sabinene	6.07
4.03	Myrcene	7.38
4.16	$\alpha$ -Phellandrene	2.52
4.24	$\delta$ -Carene	0.45
4.48	para-Cymene	3.52
4.58*	Limonene	14.24
4.58*	$\beta$ -Phellandrene	0.83
4.76	$\beta$ -Ocimene	0.19
5.03	$\gamma$ -Terpinene	0.32
5.49	Terpinolene	0.23
5.73	Linalool	0.25
6.04	$\alpha$ -Campholenal	0.12
6.23	trans-Pinocarveol	0.45
6.31	trans-Sabinol	0.21
6.37	trans-Verbenol	0.66
6.72	$\alpha$ -Phellandren-8-ol	0.33
6.86	Terpinenol	0.52
7.09*	Myrtenal	0.17
7.09*	$\alpha$ -Terpinenol	0.27
7.17	Myrtenol	0.18
7.30	Verbenone	0.38
7.53	trans-Carveol	0.17
7.84	Carvone	0.17
8.51	Bornyl acetate	0.25
9.80	$\alpha$ -Copaene	0.63
9.91	$\beta$ -Bourbonene	0.14
10.05	$\beta$ -Elemene	0.93
10.38	$\beta$ -Caryophyllene	2.88
10.83	$\alpha$ -Humulene	0.55
11.18	$\gamma$ -Muurolene	0.26
11.21	Germacrene D	0.43
11.27	$\beta$ -Selinene	0.32
11.40	$\alpha$ -Selinene	0.23
11.66*	$\gamma$ -Cadinene	0.32
11.66*	Cubebol	0.29
11.80	$\delta$ -Cadinene	0.57
12.49	Caryophyllene oxide	0.40
12.62	Viridiflorol	0.26
18.75	Incensole	0.29
	<b>Total identified</b>	<b>93.68</b>

\*: Two or more compounds are co-eluting on this column

Compounds identified using multiple NIST databases and a custom defined spectral library.

DB-5

