

## 1 Identification de l'échantillon / Sample identification

Désignation commerciale <i>Trade name</i>	HE NIAOULI BIO <i>Organic Niaouli EO</i>
Code article / Article code	[MP10061]
Type d'extrait <i>Type of Extract</i>	Huile Essentielle <i>Essential Oil</i>
Nom commun <i>Common name</i>	Niaouli <i>Niaouli</i>
Nom botanique <i>Botanical name</i>	<i>Melaleuca viridiflora</i>
Qualité / Quality	Biologique / Organic
Partie de la plante <i>Part of the plant</i>	Feuilles <i>Leaves</i>
Origine de la plante <i>Origin of the plant</i>	Madagascar
Producteur / Fournisseur <i>Manufacturer / Supplier</i>	LABORATOIRE ALTHO
N° de Lot / Batch number	INT250717-03



## 2 Analyses physico-chimiques / Physicochemical analyses

### 2.1 Résultats d'analyse / Results

	Result	Norm	Conformity
Aspect	Liquid	Liquid	Conform
Color	Colorless	Colorless to pale yellow	Conform
Odor	Douce, fraîche, camphorée	Sweet, fresh, camphorated	Conform
Relative density (d20/20)	0.915	[0.9 ; 0.93]	Conform
Refractive index @ 20°C	1.4680	[1.46 ; 1.47]	Conform
Optical rotation (°) at 20°C	-1.76	[-4 ; -1]	Conform
Part of the plant	young terminal branches	young terminal branches	Conform

### 3 Analyse par Chromatographie Phase Gazeuse / GC-MS Analyses

Colonne polaire : Elite-Wax 60m, Ø 0,25mm, 0.25µm df

Pic #	Component Name	Tr [min]	Area [%]
1	pinene <alpha>	6.32	8.19
2	thujene <alpha>	6.39	0.18
3		7.11	0.02
4	camphene	7.30	0.08
5	pinene <beta>	8.39	2.06
6	myrcene	10.02	0.89
7	phellandrene <alpha>	10.09	0.08
8		10.24	0.05
9	terpinene <alpha>	10.57	0.37
10	limonene	11.25	7.60
11	cineole <1,8>	11.70	58.22
12	terpinene <gamma>	12.88	1.60
13	cymene <p>	13.75	0.83
14	terpinolene	14.26	0.80
15		20.15	0.03
16		22.30	0.04
17	copaene <alpha>	22.56	0.04
18	benzaldehyde	23.31	0.28
19		24.06	0.14
20	linalool	24.55	0.14
21		25.41	0.03
22	caryophyllene <beta>	26.59	2.24
23	terpinen-4-ol	26.85	0.11
24		26.98	0.04
25		27.21	0.03
26	aromadendrene <allo>	28.40	0.39
27	humulene <alpha>	29.26	0.41
28		29.77	0.04
29		29.91	0.04
30	terpineol<a>+terpinyIACt<a>+vi	30.17	7.12
31		30.22	0.67
32		30.29	0.92
33	selinene <beta>	31.10	0.15
34	selinene <alpha>	31.29	0.20
35	cadinene <delta+gamma>	32.53	0.10
36	geraniol	35.54	0.05
37		38.28	0.11
38	caryophyllene oxide	40.04	0.12
39	ledol	41.58	0.62
40	nerolidol <(E)>	42.10	0.67
41		42.41	0.15
42	globulol	43.04	0.04
43	viridiflorol	43.37	3.97
44		43.55	0.07
45		45.67	0.04
46	eugenol	46.00	0.03
			100.00