2 4 CHATH AM P L ACE, BR IGH TON, BN 1 3 TN (U K)
TE L. (U K) 0 8 4 5 3 1 0 80 6 6 In t ern a t i on a l Tel. + 4 4 1 2 7 3 7 46 5 0 5
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Certificate of Analysis & Gas Chromatography
Organic May Chang Essential Oil
(Litsea cubeba)

Batch Number : 021120-6 Origin : Vietnam
Product recognized as : essential oil organic Product Specification : litsea
Packing : glass, ambient Sealed : yes
Sample Type : sample Sample size : 10ml

No.	Physico-Chemical Properties	Standard	At	Value	Note
1.	Specific Gravity	ISO 279:1998	20°C	0.8814	
2.	Refractive Index	ISO 280:1998	20°C	1.4758	
3.	Optical Rotation	ISO 592:1998	20°C	[+]3.40	

Combined analyses chromatography by GC/MS and GC/FID for volatile components:

#	time	RI	hit %	chemical name	integral	%FID
1	10.37	939	93	Pinene<a->	2426431	0.46
2	11.56	978	94	Sabinene	2400382	0.45
3	11.78	985	88	6-Methylhept-5-en-2-one	17605639	3.86
4	11.96	991	89	Myrcene	6511225	1.43
5	12.09	996	8	2,3-Dehydro-1,8-cineol	1019772	0.20
6	13.36	1033	90	**Limonene**	23306705	4.53
7	13.49	1037	50	Cineole 1,8	2066887	0.35
8	15.66	1101	80	**Linalool**	11627162	2.35
9	17.26	1146	32	Lavandulol	1660571	0.34
10	17.55	1155	87	Citronellal	24333016	4.50
11	17.93	1166	32	Isoneral	8494560	1.58
12	18.56	1184	50	Isogeranial	12402474	2.26
13	18.61	1185	82	Terpinen-4-ol	531014	0.22
14	19.04	1197	83	Terpineol <a->	686793	0.12
15	20.12	1228	91	**Citronellol**	1612197	0.67
16	20.21	1231	41	Nerol	4091601	1.07
17	20.75	1247	95	**Neral**	149661187	32.64
18	21.05	1255	99	**Geraniol**	9968671	2.16
19	21.74	1275	85	**Geranial**	180198054	40.53
				Total		99.73

LES ANALYSES DONT LES RESULTATS SONT PRESENTS SUR CE DOCUMENT ONT ETE EFFECTUEES PAR LE LABORATOIRE DE NOTRE FOURNISSEUR