

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION		COMPANY IDENTIFICATION	
PRODUCT NAME:	Litsea Cubeba	COMPANY:	ZAYAT AROMA INC.
BOTANICAL NAME:	Litsea citrata (cubeba)	ADDRESS:	1339 SHEFFORD, BROMONT (QC) J2L 1C9, CANADA
SYNONYM(S):		TELEPHONE:	1.855.534.1671
		FAX:	1.855.318.6124
		WEB:	WWW.ZAYATAROMA.COM
		E-MAIL:	INFO@ZAYATAROMA.COM
INCI NAME:	Litsea cubeba (may chang) fruit oil		
CAS TSCA:	68855-99-2	HS CODE:	3301.29
CAS EINECS:	90063-59-5	EINECS:	290-018-7
FEMA:	3846	COE:	N/A
COUNTRY OF ORIGIN:	China	FDA CODE:	182.2
PRODUCTION TYPE:	Conventional		
PRODUCTION METHOD:	Distillation complète à la vapeur d'eau		
PART DISTILLED:	Fruits		
LOT NUMBER:	EAC548249CH35618F		
PRODUCTION DATE:	April 2017		
EXPIRATION DATE:	April 2019		

PROPERTIES	SPECIFICATIONS	RESULTS
APPEARANCE	<i>Pale yellow to yellow transparent liquid</i>	<i>Complies</i>
ODOR	<i>Citral odor and litsea cubeba oil characteristic odor</i>	<i>Complies</i>
SOLUBILITY	<i>Soluble in alcohol and oils. Insoluble in water.</i>	<i>Complies</i>
SPECIFIC GRAVITY:	<i>0.880 - 0.905</i>	<i>0.88</i>
OPTICAL ROTATION:	<i>+2.0 - +12.0 @ 20°C</i>	<i>10.08</i>
REFRACTIVE INDEX:	<i>1.481 - 1.488 @ 20-C</i>	<i>1.4837</i>
PEROXYDE VALUE:	<i><= 15 mEq 02/KG</i>	<i>Complies</i>

DISCLAIMER

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COMPONENTS	% TOTAL: 99.99
TRICYCLENONE	0.01
alpha-PINENE	1.30
alpha-THUYENE	0.04
CYCLOHEXANONE, 3-ETHYL	0.01
CAMPHENE	0.39
beta-PINENE	0.98
SABINENE	0.62
delta3-CARENE	0.01
beta-MYRCENE	1.62
alpha -PHELLANDRENE	0.08
alpha -TERPINENE	0.02
2,3 -DEHYDRO -1,8 -CINEOLE	0.08
LIMONENE	11.18
1,8 -CINEOLE	1.89
Cis -beta - O CIMENE	0.01
2 -HEPTANONE, 6 -METHYL	0.01
gamma -TERPINENE	0.05
Trans -beta -OCIMENE	0.01
p -CYMENE	0.01
TERPINOLENE	0.08
5 -HEPTEN - 2 -ONE, 6 -METHYL -	1.24
5 -HEPTENAL,2,6 -DIMETHYL -	0.01
COMPOUND Mw=150	0.02
PINENOL ISOMER	0.01
PERILLENE	0.02
ALIPHATIC ESTER	0.01
LINALOOL Cis -OXIDE	0.01
LIMONENE Cis -1,2 -EPOXIDE	0.01
LIMONENE trans -1,2 -EPOXIDE	0.01
5 -HEPTEN - 2 -OL,6 -METHYL -	0.03
Trans -THUYANOL	0.02
NERYL OXIDE	0.02
CITRONELLAL	2.06
alpha -COPAENE	0.03
ISONERAL	0.01
CAMPHOR	0.02
METHYL HEPTADIENE	0.10
EPIPHOTOCITRAL A	1.16
LINALOOL	1.25
Trans - p -MENTH - 2 -EN - 1 -OL	0.01
NEOISOPULEGOL	0.01
EPIPHOTOCITRAL B + ISOPULEGOL	1.70
beta -ELEMENE	0.22
beta -CARYOPHYLLENE	1.38
TERPINENE - 4 -OL	0.13
Trans -2,8 -MENTHADIEN - 1 -OL	0.02
alpha -HUMULENE	0.12
delta -TERPINEOL	0.03
E -beta -FARNESENE	0.04
NERAL	30.19
TERPENYL ACETATE	0.05
alpha -TERPINEOL	0.64
GERMACRENE D	0.05
PIPERITONE	0.01
alpha -SELINENE	0.04
CARVONE	0.08
GERANIAL	38.02
ISOPIPERITENOL	0.01

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<i>alpha</i> -FARNESENE	0.01
<i>Trans</i> -ISOPIPERITENOL	0.02
<i>delta</i> -CADINENE	0.01
GERANYL ACETATE	0.04
<i>alpha</i> -PANASINSEN	0.03
CITRONELLOL	0.18
METHYL SALICYLATE	0.02
PERILLALDEHYDE	0.02
<i>gamma</i> -GERANIOL	0.03
NEROL	0.43
<i>Cis</i> -ISOGERANIOL	0.02
<i>Trans</i> -ISOGERANIOL	0.02
<i>Trans</i> -CARVEOL	0.01
GERANIOL	1.29
<i>Cis</i> - 3 -HEXENYL ESTER	0.02
ISOCARYOPHYLLENE EPOXIDE	0.02
CARYOPHYLLENE EPOXIDE	0.08
EPOXY ESTER COMPOUND	0.07
PERILLIC ALCOHOL	0.01
ALIPHATIC INSATURATED ALCOHOL	0.04
FURANIC COMPOUND	0.02
AROMATIC COMPOUND	0.01
COMPOUND Mw=164	0.02
ALPHATIC ALDEHYDE	0.01
SPATHULENOL	0.01
ALIPHATIC METHYL ESTER	0.01
CITRONELLIC ACID	0.03
NERIC ACID	0.04
GERANIC ACID	0.22
ISOEUGENOL	0.01
ACID COMPOUND Mw=168	0.01
ACID COMPOUND Mw=168	0.01
ALIPHATIC ESTER	0.01
AROMATIC COMPOUND	0.02