

CERTIFICATE OF ANALYSIS

SAMPLE	Essential Oil of Lavandula angustifolia Avis Hill
CUSTOMER	Projects Etc Pty Ltd Japan
CERTIFICATION DATE	01 June 2017
CUSTOMER LOT/BATCH No.	NZ2017
LABORATORY REFERENCE	ARL172629
JOB No.	A171018
TEST METHOD	ARL-TM101-3*

TEST	RESULTS Area %	SPECIFICATION				
		BP 2016 RANGE	FRENCH ISO 3515	AUST ISO 3515	GROSSO ISO 8902	SPIKE ISO 4719
limonene	0.31	<1.0	0-0.5	0-0.5	0.5-1.5	0.5-3.0
cis- β -ocimene	5.59	-	4.0-10.0	3.0-9.0	0.5-1.5	-
octan-3-one	2.07	0.1-5.0	tr-2.0	2.0-5.0	-	-
1,8-cineole	0.40	<2.5	0-1.0	0-1.0	4.0-8.0	16.0-39.0
trans- β -ocimene	2.11	-	1.5-6.0	0.5-1.0	tr-1.0	-
linalool	14.14	20.0-45.0	25.0-38.0	25.0-38.0	24.0-37.0	34.0-50.0
camphor	0.23	<1.2	tr-0.5	0-0.5	6.0-8.5	8.0-16.0
terpinen-4-ol	5.43	0.1-8.0	2.0-6.0	1.5-6.0	1.5-5.0	-
lavandulol	0.26	>0.1	>0.3	>0.3	0.2-1.0	-
α -terpineol	0.74	<2.0	0-1.0	0-1.0	0.3-1.3	0.2-2.0
linalyl acetate	48.14	25.0-47.0	25.0-45.0	25.0-45.0	25.0-38.0	tr-1.6
lavandulyl acetate	2.85	>0.2	>0.2	>1.0	1.5-3.5	-

* Assay by GC-4(DB1701 column)

tr - denotes trace

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MS SAMANTHA MORROW
ANALYTICAL OFFICER

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MR ASHLEY DOWELL
MANAGER - ARL

Sample Name: LAVANDULA ANGUSTIFOLIA AVIS HILL NZ2017

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 5/30/2017 3:13:19 PM
Multiplier : 1.0000
Dilution : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	24.835	BB	0.0856	8.34331	0.26497	octen-3-ol
2	26.638	VV	0.0838	9.67883	0.30739	limonene
3	27.488	BV	0.0824	176.03270	5.59060	cis-b-ocimene
4	27.890	VV	0.0976	65.20552	2.07085	octan-3-one
5	28.386	VV	0.0856	12.60509	0.40032	1,8 cineole
6	28.625	VB	0.0876	66.51714	2.11251	trans-b-ocimene
7	36.593	VB	0.0925	83.57239	2.65416	octen 3 yl acetate
8	38.024	BB	0.0988	445.31586	14.14272	linalool
9	43.868	VB	0.0902	7.38741	0.23462	camphor
10	44.405	BV	0.0972	170.86719	5.42655	terpinen-4-ol
11	44.719	VV	0.0889	8.12263	0.25797	lavendulol
12	46.153	BB	0.1132	34.85772	1.10704	borneol
13	47.111	VB	0.0923	23.18159	0.73622	a - terpineol
14	49.312	VB	0.1043	1515.82947	48.14101	linalyl acetate
15	52.494	VB	0.0848	89.73734	2.84996	lavendulyl acetate
16	60.740	VB	0.0931	104.06654	3.30503	caryophyllene
17	62.535	BB	0.0872	30.83279	0.97921	trans b farnesene

Totals : 2852.15351 90.5811

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*** End of Report ***