

CERTIFICATE OF ANALYSIS

SAMPLE NAME		New Zealand Lavender Ess Oil	
FORM		Oil	
CUSTOMER NAME		Projects Etc Pty (Japan)	
CERTIFICATION DATE		26 July 2018	
CUSTOMER REFERENCE		NZAH001	
ARL JOB #	A181679	LAB REF. #	ARL185040
ANALYSIS	GCFID - Area%	METHOD	ARL-TM101-3


TEST	RESULTS Area %	SPECIFICATION				
		BP 2018 RANGE	FRENCH ISO 3515	AUST ISO 3515	GROSSO ISO 8902	SPIKE ISO 4719
limonene	0.30	<1.0	0-0.5	0-0.5	0.5-1.5	0.5-3.0
cis- β -ocimene	8.90	-	4.0-10.0	3.0-9.0	0.5-1.5	-
octan-3-one	1.84	0.1-5.0	tr-2.0	2.0-5.0	-	-
1,8-cineole	0.55	<2.5	0-1.0	0-1.0	4.0-8.0	16.0-39.0
trans- β -ocimene	2.24	-	1.5-6.0	0.5-1.0	tr-1.0	-
linalool	10.77	20.0-45.0	25.0-38.0	25.0-38.0	24.0-37.0	34.0-50.0
camphor	0.31	<1.2	tr-0.5	0-0.5	6.0-8.5	8.0-16.0
terpinen-4-ol	4.28	0.1-8.0	2.0-6.0	1.5-6.0	1.5-5.0	-
lavandulol	0.14	>0.1	>0.3	>0.3	0.2-1.0	-
α -terpineol	0.64	<2.0	0-1.0	0-1.0	0.3-1.3	0.2-2.0
linalyl acetate	48.46	25.0-47.0	25.0-45.0	25.0-45.0	25.0-38.0	tr-1.6
lavandulyl acetate	2.05	>0.2	>0.2	>1.0	1.5-3.5	-

* Assay by GC (FID detection)

tr - denotes trace



MS SAMANTHA MORROW
ANALYTICAL OFFICER

MR ASHLEY DOWELL
MANAGER - ARL

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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 7/26/2018 1:46:21 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	26.234	VB	0.0985	11.63843	0.37744	octen-3-ol
2	28.128	BB	0.0857	9.18570	0.29790	limonene
3	28.998	VB	0.0888	274.29599	8.89554	cis-b-ocimene
4	29.453	BV	0.1088	56.83620	1.84322	octan-3-one
5	29.804	VV	0.0904	16.91066	0.54842	1,8 cineole
6	30.164	VB	0.0905	69.14423	2.24238	trans-b-ocimene
7	38.336	VB	0.0936	71.07561	2.30501	octen 3 yl acetate
8	39.729	BB	0.0929	332.24149	10.77474	linalool
9	45.745	VV	0.0966	9.47375	0.30724	camphor
10	46.213	VV	0.0936	131.87894	4.27689	terpinen-4-ol
11	46.520	VV	0.1014	4.32753	0.14034	lavendulol
12	47.943	VB	0.1082	37.14693	1.20469	borneol
13	48.923	BB	0.1010	19.68613	0.63843	a - terpineol
14	51.207	VB	0.1056	1494.28979	48.46050	linalyl acetate
15	54.412	BB	0.0782	63.23918	2.05088	lavendulyl acetate
16	62.752	VB	0.0930	117.81010	3.82064	caryophyllene
17	64.510	BV	0.0977	37.79950	1.22585	trans b farnesene

Totals : 2756.98016 89.4101

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*** End of Report ***
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