

CERTIFICATE OF ANALYSIS

SAMPLE NAME		Clary Sage oil	
FORM		Oil	
CUSTOMER NAME		Buckley & Phillips Aromatics	
CERTIFICATION DATE		22 March 2019	
CUSTOMER REFERENCE		30536/08	
ARL JOB #	A190548	LAB REF. #	ARL1901305
ANALYSIS	GCFID - Area%	METHOD	ARL-TM101-3

TEST	BP 2018** SPECIFICATION	RESULTS	TEST METHOD
	Area %		
α - and β -thujone	NMT 0.2	nd	ARL-TM101-3*
linalool	6.5 - 24.0	28.57	
linalyl acetate	56.0 - 78.0	53.47	
α -terpineol	NMT 5.0	3.16	
germacrene-D	1.0 - 12.0	2.30	
sclareol	0.4 - 2.6	0.21	

* Assay by GC (FID detection –area percent report)

** *Ph. Eur. monograph 1850*

nd-denotes not detected



.....
Samantha Morrow
ANALYTICAL OFFICER



.....
Ashley Dowell
MANAGER - ARL

Sample Name: Clary Sage 30536/08

 =====
 Area Percent Report
 =====

Sorted By : Signal
 Calib. Data Modified : 3/21/2019 3:47:42 PM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	9.409	BB	0.0218	35.23974	0.87955	myrcene
2	10.281	BV	0.0213	11.55630	0.28843	limonene
3	10.471	VV	0.0200	14.89391	0.37174	cis b ocimene
4	10.643	VV	0.0203	30.08471	0.75089	trans b ocimene
5	11.898	BV	0.0282	1144.58350	28.56774	linalool
6	13.943	BV	0.0213	126.58382	3.15941	a-terpineol
7	14.490	VV	0.0279	2142.28638	53.46948	linalyl acetate
8	16.400	VV	0.0224	43.27808	1.08018	neryl acetate
9	16.733	VV	0.0203	64.97105	1.62162	geranyl acetate
10	17.033	BV	0.0217	63.49303	1.58473	caryophyllene
11	18.039	VV	0.0223	92.15241	2.30004	germacrene D
12	18.355	VB	0.0223	12.63779	0.31543	bicyclogermacrene
13	29.005	BB	0.0489	8.26915	0.20639	sclareol

Totals : 3790.02986 94.5956

 =====
 *** End of Report ***