

CERTIFICATE OF ANALYSIS

SAMPLE NAME		Geranium Oil Egyptian	
FORM		Oil	
CUSTOMER NAME		Buckley & Phillips Aromatics	
CERTIFICATION DATE		19 July 2019	
CUSTOMER REFERENCE		1200066	
ARL JOB #	A191739	LAB REF. #	ARL1904702
ANALYSIS	GCFID - Area%	METHOD	ARL-TM101*

TEST	RESULTS
	Area %
cis rose oxide	1.34
trans rose oxide	0.23
menthone	0.80
iso menthone	6.39
linalool	4.53
guaia-6,9-diene	1.85
citronellyl formate	6.81
α -terpineol	0.37
geranyl formate	0.98
citronellol	33.44
geraniol	11.98
geranyl butyrate	2.51
10-epi- γ -eudesmol	nd
geranyl tiglate	1.38
β -phenylethyl tiglate	1.42

* Assay by GC (FID detection - area percent report) nd - denotes not detected



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Bendrik Baumeister
ANALYTICAL OFFICER



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Ashley Dowell
MANAGER - ARL

Sample Name: Geranium

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 Area Percent Report
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Sorted By : Signal
 Calib. Data Modified : 7/19/2019 11:34:31 AM
 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	20.121	BB	0.0520	6.99828	0.23217	trans rose oxide
2	20.439	BV	0.0489	40.26125	1.33570	cis rose oxide
3	20.857	VV	0.0482	136.57436	4.53097	linalool
4	22.723	VV	0.0512	24.10337	0.79965	menthone
5	23.121	VV	0.0530	192.49524	6.38620	iso-menthone
6	23.554	VV	0.0560	11.27133	0.37394	a-terpineol
7	24.270	VV	0.0536	977.90222	32.44275	citronellol
8	24.643	VV	0.0477	205.17421	6.80683	citronellyl formate
9	24.950	VV	0.0498	361.17401	11.98226	geraniol
10	25.336	VB	0.0505	75.52248	2.50552	geranyl formate
11	26.357	VV	0.0530	38.53645	1.27848	b-bourbonene
12	27.444	VV	0.0629	55.75296	1.84965	6,9 guaiadiene
13	28.704	VV	0.0540	10.62343	0.35244	citronellyl butyrate
14	29.551	VV	0.0597	21.25497	0.70515	furopelagone
15	30.254	VV	0.0475	29.44893	0.97699	geranyl butyrate
16	32.029	VV	0.0570	43.03202	1.42762	phenyl ethyl tiglate
17	32.562	VV	0.0519	131.50600	4.36282	citronellyl tiglate
18	33.092	VV	0.0503	41.65913	1.38208	geranyl tiglate

Totals : 2403.29064 79.7312

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 *** End of Report ***