

CERTIFICATE OF ANALYSIS

SAMPLE NAME		Petitgrain oil Paraguay	
FORM		Oil	
CUSTOMER NAME		Buckley & Phillips Aromatics	
CERTIFICATION DATE		06 May 2019	
CUSTOMER REFERENCE		29511/26	
ARL JOB #	A190904	LAB REF. #	ARL1902303
ANALYSIS	GCFID - Area%		

TEST	ISO 3064** SPECIFICATION	RESULTS	TEST METHOD
	Area %		
β -pinene	0.5 - 2	1.28	ARL-TM101-3*
myrcene	1.3 - 3	1.55	
sabinene	0.1 - 0.5	0.27	
limonene	0.7 - 3.5	1.54	
<i>cis</i> - β -ocimene	0.7 - 1.5	0.38	
<i>trans</i> - β -ocimene	0.5 - 3.5	0.92	
linalool	15 - 30	23.61	
linalyl acetate	40 - 60	50.58	
β -caryophyllene	0.3 - 1.5	0.64	
α -terpineol	3 - 7	5.42	
nerol	0.5 - 2	1.01	
geraniol	2 - 4.5	2.43	
neryl acetate	1 - 3	2.27	
geranyl acetate	2 - 5	3.84	

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

** ISO 3064 - Essential oil of petitgrain, Paraguayan type (*Citrus aurantium* L.ssp. *aurantium*, syn. *Citrus aurantium* L. ssp. *Amara* var. *pumilia*)


 Dr Jeanette Balindong
 ANALYTICAL OFFICER


 Mr Ashley Dowell
 MANAGER - ARL

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	9.213	VB	0.0234	10.19680	0.2650	sabinene
2	9.323	BV	0.0250	49.16522	1.2776	b-pinene
3	9.414	VB	0.0219	59.78636	1.5536	myrcene
4	10.287	VB	0.0214	59.07112	1.5351	limonene
5	10.475	VB	0.0213	14.71886	0.3825	cis-b-ocimene
6	10.647	BV	0.0195	35.42632	0.9206	trans-b-ocimene
7	11.899	BV	0.0245	908.60449	23.6116	linalool
8	13.952	VV	0.0217	208.48936	5.4179	a-terpineol
9	14.375	VV	0.0223	39.02217	1.0141	nerol
10	14.491	VV	0.0263	1946.34717	50.5790	linalyl acetate
11	14.824	VV	0.0204	93.68108	2.4345	geraniol
12	16.405	VV	0.0206	87.21690	2.2665	neryl acetate
13	16.738	VV	0.0194	147.72530	3.8389	geranyl acetate
14	17.036	VV	0.0227	24.81314	0.6448	caryophyllene

Totals : 3684.26430 95.7417

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*** End of Report ***

8/3
2/5/19