

Analysis Report

Code AL01K18_0096_Report_v01

Applicant E-Liquids Australia

Product Name Buisson by ELA, Blackcurrant

Method GCMS

Analysis for	Name	IUPAC name	CAS
Impurity determination	Diacetyl	Butane-2,3-dione	431-03-8
	Acetyl propionyl	Pentane-2,3-dione	600-14-6
	Acetoin	3-Hydroxybutanone	513-86-0
	Ethylene glycol	Ethane-1,2-diol	107-21-1
	Diethylene glycol	2,2'-Oxydi(ethan-1-ol)	111-46-6

1. Sample information

Brand	Buisson by ELA
Sample name	Blackcurrant
Strength	Non-nicotine
Batch number	18-01109
PG/VG ratio	30/70 v/v%
Date sample received	11OCT18
Sample condition	Samples has been received in good condition.
Chain of custody	Chain of custody has been verified.

2. Summary of method, impurity determination

A volume of sample is weighed and a known amount of internal standard (cyclohexanone) is added. Solvent (Dichloromethane) is added up to a known volume and the sample is thoroughly homogenized. An aliquot is quantitatively analysed and the concentration is determined by calculating the ratio of impurity area per ISTD area in the sample versus the ratio per of an impurity standard area with a known concentration per ISTD area, over a validated linear range of a calibration curve. A gas chromatograph coupled with a mass selective detector in single ion mode and scan mode is used. Peak identification is verified using literature verified fragment compound ions.

3. Analysis

Apparatus	Agilent 7890 GC, G4513A turret with 7693 150-tray autosampler, 5977B MSD, DB-WAX 30m x 0.25 mm x 1.4 µm
Method	AL02K18_008_SOP_v01
Analyst	K.S.
Sample code	181012_136

4. Results

The following results have been found:

Compound	Result	MDL	MQL	Unit
Diacetyl	Not detected	0.30	1.05	µg/g
Acetyl Propionyl	Not detected	0.53	1.78	µg/g
Acetoin	Not detected	0.36	1.18	µg/g
Ethylene glycol	Not detected	5.25	17.75	µg/g
Diethylene glycol	Not detected	0.58	1.75	µg/g


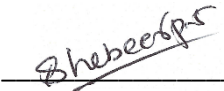
MDL Method Detection Limit
 MQL Method Quantification Limit
 µg microgram
 g gram

5. Notes

Impurity determination is performed and reported on a per recipe base. The impurities diacetyl, acetyl propionyl, acetoin, ethylene glycol and diethylene glycol were not detected using the described method.

6. Statement

I hereby certify to the best of my knowledge that the information in this report is complete, accurate, error free and legible. The procedure has been carried out in accordance with the approved protocol and all deviations and analytical complications have been reported.

Signature		
	Analyst	Quality Control
Name	<u>K. Schumacher</u>	<u>Shebeers P.S.</u>
Date	<u>24 Oct 2018</u>	<u>24/10/2018</u>

- End of the report -