

# Chromatographic analysis report

## Determination of the dicarbonyl content



Operator : Jérémy Sorin

Date of analysis : 17/06/15 06:10:30 AM

Analysed E-liquid : YUMMY PEACH

### Customer information

Customer : VDLV  
Reference analysis report : DIAC 0615\_AR\_PECHE\_GOURMANDE  
Sampling : under the responsibility of the applicant

### Instrumentation and experimental method

Instrument : gas chromatography linked to a mass spectrometer

Instrument's lot number : 1312110 / ISQ140510

Instrumental method : Detection of quinoxalines derivatives composed of the formula of both diaminobenzene and  $\alpha$ -dicarbonyl.

Quantification method : The quinoxalines' identification is conducted comparing full scan spectrum full to those registered in the « mainlib » spectrum library. Both the diacetyl and propionyl acetyl are conducted in SIM mode, respectively on the 158, 117 et 76 ; 172, 171 et 130 ions. The 2,3\_dione hexane is used as internal standard.

Stationary phase: Polar column TG-WAX-MS 30m, 0,32mm, 0.25 $\mu$ m

### Quantification results

Compound	Retention time (min)	Measured quantity	Unit	Internal standard
Hexane_2,3_dione	9.76	N/A	ppm	N/A
Acetyl_propionyl	8.85	2.04	ppm	Hexane_2,3_dione
Diacetyl	9.19	1.34	ppm	Hexane_2,3_dione

*The results are reproducible under certain test conditions :it concerns test products only.*

*The uncertainty regarding measurements are upon request. The analyzed samples are always destroyed after analysis unless otherwise specified.*

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