

Pillbox 38 (UK) Ltd Quality Control Laboratory

## CERTIFICATE OF ANALYSIS

**Attn:** Technical Manager  
**QC Lab Tel:** 01254 692244 (EXT 255)  
**Sample Description:** E-liquid flavour concentrate  
**COA Number:** P38-RL-042  
**Date Issued:** 15.08.2018

The results refer only to the sample(s) submitted for testing. The analytical report may only be reproduced in full and only with the written approval of Pillbox 38 (UK) Limited.

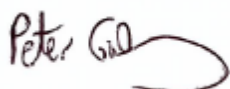
<b>Analysis:</b>	Diketone analysis by Gas Chromatography (GC-MS)	<b>Sample Name:</b>	Red Label Tobacco
<b>Date received:</b>	15/08/2018	<b>Flavour(s) formulation:</b>	Tobacco
<b>Date Analysed:</b>	15/08/2018	<b>Sample Code:</b>	91945
<b>Method Code:</b>	TW-FP-07-01-03-V2	<b>QC Analyst:</b>	James Hull
<b>Concentration Units:</b>	µg/mL	<b>Instrument:</b>	ThermoFisher ISQ

## RESULTS

Compound Name	LOQ	Results
Diacetyl (2,3-Butanedione) CAS: 431-03-8	11 µg/mL	< 11 µg/mL (LOQ)
Acetyl Propionyl (2,3-Pentanedione) CAS: 600-14-6	9 µg/mL	< 9 µg/mL (LOQ)
Acetoin (3-Hydroxy-2-butanone) CAS: 513-86-0	13 µg/mL	< 13 µg/mL (LOQ)

**Note:** The LOQ (Limit of Quantification) term refers to the determination limit of the method.

## SIGNATURE



Dr. Peter Gibbons MRSC  
Technical Manager