

# Certificate of Analysis

**Sample Name:** Lemon Irish Kush Hemp  
**Tested for:** Lough Farm Extracts  
**EirLab CoA ID:** EL25/2219  
**Sample ID Number:** NA  
**Date Tested:** 24.07.2018

**Sample Type:** Plant material  
**Sample mass:** 1 gram  
**Batch ID:** LL1  
**Date report produced:** 23.08.2018

**EIRLAB SECURITY NO**

261063

## Potency Test Results **TEST COMPLETED**

Cannabinoid profiling and analysis utilising High Performance thin-layer Chromatography (HPTLC)

Cannabinoid Summary		% (w:w)
<b>CBD</b>	Cannabidiol	3.7%
<b>CBDV</b>	Cannabidivarin	ND
<b>CBDA</b>	Cannabidiolic Acid	0.55%
<b>CBG</b>	Cannabigerol	0.09%
<b>CBN</b>	Cannabinol	<0.05%
<b>CBC</b>	Cannabichromene	0.20%
<b>THC</b>	Tetrahydrocannabinol	<0.2%
<b>THCA*</b>	Tetrahydrocannabinolic Acid	ND

\*THC as a sum of  $\Delta^9$ -THC and THCA

### Technology we use

- High Pressure Liquid Chromatography (HPLC)
- Mass Spectrometer (MS)
- Real-Time Polymerase Chain Reaction (PCR)

## Pesticide Test Results **N/A**

HPLC-Mass Spectrometry for compounds including pesticides, fungicides, and plant growth regulators

Acequinocyl	N/A	Imidacloprid	N/A
Pyrethrium	N/A	Spinosad	N/A
Spiromesifen	N/A	Spirotetramat	N/A
Abamectin	N/A	Bifenazate	N/A
Daminozide	N/A	Fenoxycarb	N/A
Myclobutanil	N/A	Paclotubrazol	N/A

## Microbiological Test Results **N/A**

3M Petrifilm and plate counts for microbiological contamination

Total Aerobic Plate Count	N/A	Total Yeast and Mold	N/A
Enterobact.	N/A	Coliforms	N/A
E coli	N/A	Aspergillus	N/A

## Terpene Test Results **N/A**

Screening and profiling for terpenes utilising Gas Chromatography

	Mg/g / %		Mg/g / %
$\alpha$ Pinene	0.00 / 0.000	Myrcene	0.00 / 0.000
$\alpha$ Phellandrene	0.00 / 0.000	3 Carene	0.00 / 0.000
$\alpha$ Terpinene	0.00 / 0.000	Limonene	0.00 / 0.000
Terpinolene	0.00 / 0.000	Linalool	0.00 / 0.000
Fenchol	0.00 / 0.000	Borneol	0.00 / 0.000
Terpineol	0.00 / 0.000	Geraniol	0.00 / 0.000
$\alpha$ Humulene	0.00 / 0.000	$\beta$ Caryophyllene	0.00 / 0.000
Caryophyllene Oxide	0.00 / 0.000	$\alpha$ Bisabolol	0.00 / 0.000
Camphene	0.00 / 0.000	$\beta$ Pinene	0.00 / 0.000
Ocimene	0.00 / 0.000	Sabinene	0.00 / 0.000
Camphor	0.00 / 0.000	Isoborneol	0.00 / 0.000
Menthol	0.00 / 0.000	$\alpha$ Cedrene	0.00 / 0.000
Nerolidol	0.00 / 0.000	R-(+)-Pulegone	0.00 / 0.000
Eucalyptol	0.00 / 0.000	p-Cymene	0.00 / 0.000
(-)-Isopulegol	0.00 / 0.000	Geranyl Acetate	0.00 / 0.000
Guaiol	0.00 / 0.000	Valencene	0.00 / 0.000
Phytol	0.00 / 0.000	Citronellol	0.00 / 0.000

**Total Terpene Concentration** Mg/g / 0.000 %

## Residual Solvent Test Results **N/A**

Headspace-Gas Chromatography for alkane and alcohol extractions

Propane	N/A	Ethanol	N/A
Methanol	N/A	Isopropanol	N/A
Isobutane	N/A	Mercaptan	N/A
2,2-Dimethylbutane	N/A	2-Methylpentane	N/A
3-Methylpentane	N/A	Cyclohexane + Benzene	N/A
Isopentane	N/A	Neopentane	N/A
n Butane	N/A	n Heptane	N/A
n Hexane	N/A	n Pentane	N/A

**EIRLAB Certification**

**Verified EirLab Seal**



EIRLAB SEAL & STAMP



Physical copy only

Scan to verify at [www.EirLab.eu](http://www.EirLab.eu)

Sample has been tested by EirLab Ireland.