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TEST REPORT

REPORT NO.: 21-04-20177

Spirit of Hemp
Priory Bank
Lewes Road
Forest Row RH18 5AF
East Sussex
United Kingdom.
Att.: Louise Callinan

<i>Date of Sample:</i>	<i>01-April-2021</i>	<i>Test Report Number:</i>	<i>21-04-20177</i>
<i>Date of Receipt:</i>	<i>06-April-2021</i>	<i>Sample Type:</i>	<i>Cold Pressed Original CBD Oil 7%</i>
<i>Date of Report:</i>	<i>14-April-2021</i>	<i>Sample Reference:</i>	<i>Ref. As Dated</i>
<i>Laboratory Ref. Number:</i>	<i>21-22377</i>	<i>Sample Presentation:</i>	<i>10ml. Glass Dispensing Bottle.</i>
		<i>Weight of sample:</i>	

Abbreviations:

% Vol: *percentage volume.*

% wt: *percentage weight.*

mg/L: *milligrams per litre (ppm).*

ppm: *parts per million or mg per litre.*

mg/g: *milligrams per gram.*

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Cannabinoids Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
Cannabidiol CBD.	UHPLC-MS-MS	JHG-249	mg/ml.	6.712
Cannabigerol CBG.	UHPLC-MS-MS	JHG-249	mg/ml.	0.134
Cannabichromene CBC.	UHPLC-MS-MS	JHG-249	mg/ml.	0.022
Delta-8-Tetrahydrocannabinol THC.	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Delta-8-Tetrahydrocannabinolic acid THC-A.	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Delta-9-Tetrahydrocannabinol THC.	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Delta-9-Tetrahydrocannabinolic acid THC-A.	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Cannabidiol acid CBD-A	UHPLC-MS-MS	JHG-249	mg/ml.	1.345
Cannabigerolic acid CBG-A	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Cannabidivarin CBDV	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Cannabidivarinic acid CBDV-A	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Tetrahydrocannabivarin THCV	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Tetrahydrocannabivarinic acid THCV-A	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Cannabinol CBN.	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected
Cannabicyclol CBL.	UHPLC-MS-MS	JHG-249	mg/ml.	Not Detected

Comment:

Result of Delta-8-Tetrahydrocannabinol (THC) and Delta-8-Tetrahydrocannabinolic acid (THC-A) is based on Limit of Detection (LOD) for the Instrumentation used in this method. This is the smallest concentration of analyte that can be reported and is based on analysis of a minimum of 7 spiked samples and 7 method blank samples.

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Flavonoids Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
Quercetin	SPME-HPLC	In-House Method	mg/ml.	1.512
Apigenin	SPME-HPLC	In-House Method	mg/ml.	0.800
Flavanone	SPME-HPLC	In-House Method	mg/ml.	0.268
Caffeic acid	SPME-HPLC	In-House Method	mg/ml.	0.134
Catechin	SPME-HPLC	In-House Method	mg/ml.	1.468
Gallic acid	SPME-HPLC	In-House Method	mg/ml.	1.024
p-Hydroxybenzoic acid	SPME-HPLC	In-House Method	mg/ml.	0.200
Sinapic acid	SPME-HPLC	In-House Method	mg/ml.	0.088
Vanillic acid	SPME-HPLC	In-House Method	mg/ml.	0.129
p-Coumaric acid	SPME-HPLC	In-House Method	mg/ml.	0.204

Heavy Metals Analysis

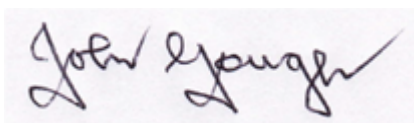
Parameter	Method of Analysis	Method Reference	Units	Reported Levels
Mercury as Hg.	Cold Vapour AAS	EC 1881	µg/ml.	< 0.002
Chromium as Cr.	ICP-OES	EC 1881	µg/ml.	< 0.002
Arsenic as As.	ICP-OES	EC 1881	µg/ml.	< 0.0005
Cadmium as Cd.	ICP-OES	EC 1881	µg/ml.	< 0.003
Nickel as Ni.	ICP-OES	EC 1881	µg/ml.	< 0.002
Lead as Pb.	ICP-OES	EC 1881	µg/ml.	< 0.002

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Terpenes Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
β -Caryophellene	GC-MS	APHA 6220	mg/ml.	12
Myrcene	GC-MS	APHA 6220	mg/ml.	8.85
β -Sitosterol	GC-MS-MS	APHA 6230	mg/ml.	11
Terpinolene	GC-MS-MS	APHA 6220	mg/ml.	9.45
A-Pinene	GC-MS	APHA 6220	mg/ml.	12
β -Pinene	GC-MS	APHA 6220	mg/ml.	6
Bergamotene	GC-MS-MS	APHA 6230	mg/ml.	6.90
Limonene	GC-MS	APHA 6220	mg/ml.	7.75
Merolidol	GC-MS	APHA 6230	mg/ml.	7
Linalool	HLPC-DAD	In-House Method	mg/ml.	6
Humulene	HLPC-DAD	In-House Method	mg/ml.	8.50
Bisabolol	HLPC-DAD	In-House Method	mg/ml.	2
Valencene	HLPC-DAD	In-House Method	mg/ml.	5
Terpinol	HLPC-DAD	In-House Method	mg/ml.	6.12
Borneol	HLPC-DAD	In-House Method	mg/ml.	1.25
Delta-3-Carene	HLPC-DAD	In-House Method	mg/ml.	Not Detected



J.W. GOUGH _____ Technical Signatory.

Dated: 15th. April 2021