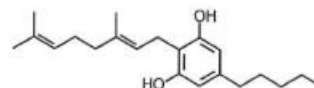


## CERTIFICATE OF TESTING



<b>Product Name</b>	Cannabigerol, 99 %
<b>Product Code</b>	SN05I
<b>Batch Number</b>	SN05I221002
<b>CAS Number</b>	25654-31-3
<b>Molecular formula</b>	C <sub>21</sub> H <sub>32</sub> O <sub>2</sub>
<b>Molecular Weight</b>	316.5 g/mol
<b>Date of Analysis</b>	13/10/2022
<b>Date of Manufacture</b>	08/10/2022
<b>Storage conditions</b>	20 °C ± 5 °C, protected from light and air
<b>Expiry (re-test) date</b>	11/2023

ASSAY	ACCEPTANCE CRITERIA	LOD	LOQ	RESULT
Appearance	White to yellowish	N/A	N/A	White
Appearance (form at RT)	Crystalline powder	N/A	N/A	Conforms
Cannabinoids (HPLC, 228 nm)				
- CBC	N/A	0.03 %	0.17 %	ND
- CBD	N/A	0.03 %	0.17 %	0.49 %
- CBDV	N/A	0.03 %	0.17 %	ND
- CBG	≥ 99.00 %	0.03 %	0.17 %	99.24 %
- CBN	N/A	0.03 %	0.17 %	ND
- THCV	N/A	0.03 %	0.17 %	ND
Cannabinoids (LC-MS/MS) <sup>2</sup>				
- Δ8-THC	ND	0.02 %	0.05 %	ND
- Δ9-THC	ND	0.02 %	0.05 %	ND
Residual solvents <sup>2</sup>				
- Acetone	≤ 5000 ppm	0.001 %	1 ppm	ND
- Ethanol	≤ 5000 ppm	0.001 %	1 ppm	ND
- Ethyl acetate	≤ 5000 ppm	0.001 %	1 ppm	ND
- Ethyl ether	≤ 5000 ppm	0.001 %	1 ppm	ND
- Heptane	≤ 5000 ppm	0.001 %	1 ppm	ND
- Propan-2-ol	≤ 5000 ppm	0.001 %	1 ppm	ND
- Dichloromethane	≤ 600 ppm	0.001 %	0.1 ppm	ND



- Methanol	≤ 3000 ppm	0.001 %	1.0 ppm	ND
- n-Hexane	≤ 290 ppm	0.001 %	1.0 ppm	ND
Heavy metals <sup>2</sup>				
- Arsenic (As)	< 0.1 ppm	N/A	0.04 ppm	ND
- Cadmium (Cd)	< 0.1 ppm	N/A	0.01 ppm	ND
- Lead (Pb)	< 0.1 ppm	N/A	0.02 ppm	< 0.02 ppm
- Mercury (Hg)	< 0.01 ppm	N/A	0.01 ppm	ND
Aflatoxins <sup>2</sup>				
- B1	≤ 2 µg/kg	N/A	0.50 µg/kg	ND
- Aflatoxins sum	≤ 4 µg/kg	N/A	N/A	ND
- Ochratoxin A	≤ 2 µg/kg	N/A	0.50 µg/kg	ND
Pesticides <sup>2</sup>				
- Pesticides	< 0.01 mg/kg	N/A	0.001-0.01 <sup>2</sup> mg/kg	ND
Microbiology <sup>1</sup>				
- TAMC	≤ 100 CFU/g	N/A	10 CFU/g	< 100 CFU/g
- TYMC	≤ 100 CFU/g	N/A	10 CFU/g	< 100 CFU/g
- <i>Candida albicans</i>	Absent	N/A	Detected / Not Detected	ND
- <i>Escherichia coli</i>	Absent	N/A	Detected / Not Detected	ND
- <i>Pseudomonas aeruginosa</i>	Absent	N/A	Detected / Not Detected	ND
- <i>Staphylococcus aureus</i>	Absent	N/A	Detected / Not Detected	ND

<sup>1</sup> – Performed in ISO 17025 certified contract testing laboratory

<sup>2</sup> – Analysis results stated by manufacturer

N/A – Not Applicable

ND – Not Detected

Approved by:

Chemist - Analyst	Head of Quality
20.02.10.13	20.02.10.13
Date, signature	Date, signature

## SPECIFICATION

<b>Name of material</b>	Cannabigerol, CBG
<b>Product ID / SKU</b>	SN05I
<b>Origin</b>	Natural
<b>Purity</b>	≥ 99 %
<b>CAS</b>	25654-31-3
<b>Appearance</b>	Crystalline powder
<b>Solubility</b>	Not soluble in water. Soluble in oils and organic solvents
<b>Color</b>	White to yellowish
<b>Long-term storage conditions</b>	20 ± 5 °C, store in a cool, dry place, away from light
<b>Packaging</b>	HDPE container, aluminium container
<b>Shelf life</b>	24 months after production, in unopened original packaging maintained under correct storage conditions.

### Material image reference



	ANALYSIS	ACCEPTANCE CRITERIA
<b>Cannabinoid profile</b> (HPLC at 228 nm and LCMS)	Cannabigerol (CBG)	≥ 99 %
	delta-8-Tetrahydrocannabinol (Δ8-THC)	≤ 0.05 %
	delta-9-Tetrahydrocannabinol (Δ9-THC)	≤ 0.05 %
<b>Residual Solvents</b>	∑ Acetone, 1-butanol, 2-butanol, butyl acetate, diethyl ether, ethanol, ethyl acetate, ethyl methyl ketone, methyl acetate, pentane, propan-2-ol, 1-propanol, heptane	≤ 5000 ppm
	Cyclohexane	≤ 3880 ppm
	Dichloromethane	≤ 600 ppm
	Methanol	≤ 3000 ppm
	n-hexane	≤ 290 ppm
<b>Heavy metals</b>	Arsenic (As)	< 0.1 ppm
	Cadmium (Cd)	< 0.1 ppm
	Lead (Pb)	< 0.1 ppm
	Mercury (Hg)	< 0.01 ppm
<b>Microbiology</b>	Total aerobic microbial count (TAMC)	≤ 100 CFU/g
	Total yeast/mold count (TYMC)	≤ 100 CFU/g
	Bile-tolerant gram-negative bacteria	Absent/1g
	<i>Candida albicans</i>	Absent/1g
	<i>Pseudomonas aeruginosa</i>	Absent/1g
	<i>Staphylococcus aureus</i>	Absent/1g
	<i>Salmonella</i> spp.	Absent/25 g
<i>Escherichia coli</i>	Absent/ 1 g	