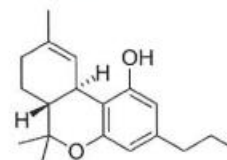


CERTIFICATE OF TESTING



Product Name	Tetrahydrocannabivarin, 98%
Product Code	SN011
Batch Number	SN011220808
CAS Number	28172-17-0
Molecular formula	C ₁₉ H ₂₆ O ₂
Molecular Weight	286.4 g/mol
Date of Analysis	05/08/2022
Date of Manufacture	08/2022
Long-term storage conditions	-20 °C ± 5 °C, in a tightly sealed container, protected from light and air, under inert gas
Expiry (re-test) date	08/2023

ASSAY	ACCEPTANCE CRITERIA	LOQ	RESULT
Appearance	Clear to yellowish (liquid state), pink to dark amber (solid state)	N/A	Clear (liquid), pink (solid)
Appearance (form at RT)	Oil, solidifies upon standing	N/A	Conforms
Cannabinoids (HPLC, 228 nm)			
- CBC	N/A	0.17 %	ND
- CBD	N/A	0.17 %	ND
- CBDV	N/A	0.17 %	0.32 %
- CBG	N/A	0.17 %	ND
- CBN	N/A	0.17 %	0.21 %
- Δ8-THCV	1.00 – 20.00 %	0.17 %	16.80 %
- Δ9-THCV	80.00 – 100.00 %	0.17 %	81.52 %
- Δ8-THC	ND	0.05 %	ND
- Δ9-THC	ND	0.05 %	ND

N/A – Not Applicable
ND – Not Detected



Approved by:

Head of Quality


10/08/2022

Date signature

SPECIFICATION

Name of material	Tetrahydrocannabivarin, THCv	Material image reference
Product ID / SKU	SN01I	
Origin	Synthetic	
Purity	≥ 98 %	
CAS	28172-17-0	
Appearance	Oil, solidifies upon standing	
Solubility	Not soluble in water. Soluble in oils and organic solvents	
Color	Clear to yellowish (liquid state), pink to dark amber (solid state)	
Long-term storage conditions	-20 ± 5 °C, store in a cool, dry place, away from light and air	
Packaging	Stainless steel container, flushed with argon gas	
Shelf life	12 months after production, in unopened original packaging maintained under correct storage conditions.	

ANALYSIS		ACCEPTANCE CRITERIA
Cannabinoid profile (HPLC at 228 nm and LCMS)	Δ9-THCV	80.00 – 100.00 %
	Δ8-THCV	1.00 – 20.00 %
	delta-8-Tetrahydrocannabinol, Δ8-THC	≤ 0.01 %
	delta-9-Tetrahydrocannabinol, Δ9-THC	≤ 0.01 %
Proton NMR spectrum	Proton NMR spectrum	Conforms
Residual Solvents	∑ Acetone, 1-butanol, 2-butanol, butyl acetate, diethyl ether, ethanol, ethyl acetate, ethyl methyl ketone, methyl acetate, propan-2-ol, 1-propanol, heptane	≤ 100 ppm
	Cyclohexane	≤ 10 ppm
	Dichloromethane	≤ 5 ppm
	Methanol	≤ 100 ppm
	n-hexane	≤ 10 ppm
Heavy metals	Arsenic (As)	< 0.1 ppm
	Cadmium (Cd)	< 0.1 ppm
	Lead (Pb)	< 0.1 ppm
	Mercury (Hg)	< 0.01 ppm
Microbiology	Total aerobic microbial count (TAMC)	≤ 100 CFU/g
	Total yeast/mold count (TYMC)	≤ 100 CFU/g
	Bile-tolerant gram-negative bacteria	Absent/1g
	<i>Escherichia coli</i>	Absent/1g



Instructions for sampling

1. Fully submerge unopened container in a cold water bath;
2. Gradually heat the water to 90 °C;
3. Make sure that the product does not have contact with air (do not open the container which is purged with inert gas upon arrival);
4. **Do not heat the product with heatgun/on hotplate/etc.**
5. Product reaches liquid state in about 30 mins (small samples of 10 g) to 120 mins (1 kg container), depending on the size of a container.

