UAB Sanobiotec
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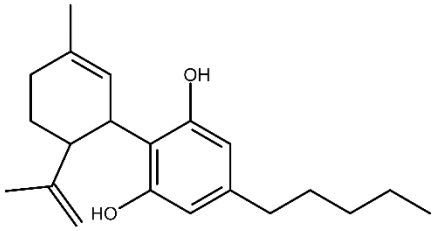
Tel. +370 608 33823
E-mail novus@sanobiotec.com
www.sanobiotec.com
Ver. 10, 2024-09-30

PRODUCT SPECIFICATION SHEET

Product :

Name of material	Cannabidiol isolate
Product ID / SKU	SN04I
Purity	≥99 %
Origin	Natural
CAS No.	13956-29-1
Molecular Formula	$C_{21}H_{30}O_2$
Molecular Weight	314.468 g/mol



Chemical & Physical Properties:

Appearance	White to yellowish
Odor	Specific
Consistency	Crystalline powder
Solubility	Not soluble in water. Soluble in oils and organic solvents.

Long-term storage conditions:	Store this product upright, in the original container at temperatures <25 ºC (<77 ºF). Store in a cool, dry place, away from light and air.
Packaging:	HDPE containers.
Shelf life:	24 months after production, in unopened original packaging maintained under correct storage conditions.
Batch Traceability:	Each batch of material is marked with a batch lot code. The batch lot code can be used to trace the production documentation for any specific batch of product. The production documentation contains full details of the manufacture of the product and contains all batch lot codes for any raw materials that were used in the manufacture of the product.
Genetic Modification:	Sanobiotec does not use genetically modified organisms or materials in its products.
Intended Usage:	The FDA has not evaluated this product for safety or efficacy.

Cannabinoid profile

Test	Action Limit
Cannabidiol (CBD)	≥ 99.0 %
delta-8-Tetrahydrocannabinol (Δ8-THC)	≤ 0.05 %
delta-9-Tetrahydrocannabinol (Δ9-THC)	≤ 0.05 %
delta-9-Tetrahydrocannabinolic acid (Δ9-THCA)	≤ 0.05 %

Cannabinoid analysis is performed by an accredited third-party laboratory using validated methods.

Residual Solvents

Test	Action Limit
∑ Acetone, 1-butanol, 2-butanol, butyl acetate, diethyl ether, ethanol, ethyl acetate, ethyl methyl ketone, methyl acetate, pentane, propan-2-ol, 1-propanol, heptane	≤ 5,000 ppm
Dichloromethane	ND
Hexanes	ND
Methanol	ND

Residual Solvent Analysis is performed by an accredited third-party laboratory using validated methods by GC/MS. Residual solvent specifications are based on European Pharmacopoeia.

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Heavy metals

Test	Action Limit
Arsenic (As)	< 0.2 ppm
Cadmium (Cd)	< 0.3 ppm
Lead (Pb)	< 0.5 ppm
Mercury (Hg)	< 0.1 ppm

Heavy Metal analysis is performed by an accredited third-party laboratory using validated methods by ICP/MS. Heavy Metal specifications are based on the ICH Harmonized Guideline for Elemental Impurities Q3D(R1), March 2019.

Pesticide Residue

Test	Action Limit
Pesticide residues	< 0.01 – 0,1 ppm

Pesticide is performed by an accredited third-party laboratory using validated methods by LC-MS. Pesticide specifications are based on European Pharmacopoeia.

Mycotoxins

Test	Action Limit
Aflatoxin B1	≤ 2 µg/kg
Aflatoxin sum	≤ 4 µg/kg
Ochratoxin A	≤ 2 µg/kg

Mycotoxins analysis is performed by an accredited third-party laboratory using validated methods. Specifications are based on European Pharmacopoeia.

Dioxins, dl PCBs, ndl PCBs

Test	Action Limit
Dioxins	< 0.75 pg/g
Sum of dioxins and dioxin-like PCBs	< 1.25 pg/g
Sum of non dioxin-like PCBs	< 40 ng/g

Dioxin analysis is performed by an accredited third-party laboratory using validated methods.

Polycyclic Aromatic Hydrocarbons (PAHs)

Test	Action Limit
Chrysene	< 10.0 µg/kg
Benzo(a)anthracene	< 10.0 µg/kg
Benzo(b)fluorathene	< 10.0 µg/kg
Benzo(a)pyrene	< 10.0 µg/kg

PAHs analysis is performed by an accredited third-party laboratory using validated methods.

Microbial Analysis

Test	Action Limit
Total aerobic microbial count (TAMC)	≤ 100 CFU/g
Total yeast/mould count (TYMC)	≤ 100 CFU/g
Bile-tolerant gram-negative bacteria	Absent/1g
Candida albicans	Absent/1g
Pseudomonas aeruginosa	Absent/1g
Escherichia Coli	Absent/1g
Salmonella spp.	Absent/25g

Microbial analysis is performed by an accredited third-party laboratory using validated methods. Specifications are based on European Pharmacopoeia.