

HIGH NORTH ID:
00668636
Date: 2025-04-29
Certificate: 1745944128



High North Inc.
241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6122
LIC-P4PNJMAC20-2022

Client: Dycar Pharmaceuticals
900 Industrial Road 1,
Cranbrook, BC, v1c 1v6
Name: Dycar Quality Assurance
780-224-9242
qa@dycarpharm.com
Product: Sudz/CS-076-25
Lot: SUDZ2504011CB
Matrix: Flower
Sub-matrix: Dried Flower
Sampled: 2025-04-02
Received: 2025-04-04
Temperature on Receipt: 22.0°C

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			30.5080	305.0796
Total CBD [(CBDA x 0.877) + CBD]			ND	ND
THCA-A	0.10	0.20	33.5717	335.7170
D9-THC	0.10	0.20	1.0656	10.6558
CBNA	0.01	0.02	0.0772	0.7719
CBN	0.01	0.02	0.0212	0.2122
CBDA	0.10	0.20	ND	ND
CBD	0.10	0.20	ND	ND
Total of all quantified cannabinoids:			34.7357	347.3569
Method: LAB-MTD-060				

Moisture Analysis	Result
Loss on Drying (EP 2.2.32 Vacuum Oven)	8.6219%

Method: LAB-MTD-053

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Trans-Caryophyllene	0.0011	0.005	0.7248
(R)-(+)-Limonene	0.0006	0.005	0.5765
Linalool	0.0006	0.005	0.3604
Beta-Myrcene	0.0004	0.005	0.2028
Alpha-Humulene	0.0002	0.005	0.1840
Alpha-Terpeneol	0.0007	0.005	0.0837
(R)-Endo-(+)-Fenchyl Alcohol	0.0005	0.005	0.0824
Beta-Pinene	0.0004	0.005	0.0778
Alpha-Pinene	0.0002	0.005	0.0701
Farnesene*	0.0029	0.010	0.0627
trans-Nerolidol	0.0005	0.005	0.0334
Terpinolene	0.0005	0.005	0.0161
Camphene	0.0009	0.005	0.0148

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Terpene Analysis	LOD (%)	LOQ (%)	wt%
Farnesol*	0.0032	0.010	BLQ
Ocimene	0.0017	0.005	0.0088
Caryophyllene oxide	0.0009	0.005	0.0081
Alpha-Bisabolol	0.0011	0.005	0.0061
Squalene	0.0015	0.005	ND
Phytol*	0.0030	0.010	ND
Nootkatone	0.0009	0.005	ND
Phytane	0.0006	0.005	ND
(+)-Cedrol	0.0004	0.005	ND
Guaiol	0.0013	0.005	ND
cis-Nerolidol	0.0012	0.005	ND
Valencene	0.0006	0.005	ND
Eugenol	0.0010	0.005	ND
Alpha-Cedrene	0.0004	0.005	ND
Geranyl acetate	0.0007	0.005	ND
Carvacrol	0.0005	0.005	ND
Thymol	0.0006	0.005	ND
d-Valerolactam (2-piperidone)	0.0015	0.005	ND
(-)-Piperitone	0.0012	0.005	ND
Isobornyl Acetate	0.0005	0.005	ND
Carvone	0.0006	0.005	ND
Pulegone	0.0006	0.005	ND
Verbenone	0.0006	0.005	ND
Citral*	0.0015	0.005	ND
Geraniol	0.0005	0.005	ND
Safranal	0.0004	0.005	ND
Nerol	0.0007	0.005	ND
Citronellol	0.0008	0.005	ND
Octyl Acetate	0.0005	0.005	ND
Borneol	0.0005	0.005	ND
Terpinen-4-ol	0.0017	0.005	ND
Camphor	0.0005	0.005	ND
Isoborneol	0.0005	0.005	ND
Menthol (Hexahydrothymol)	0.0013	0.005	ND
Menthone*	0.0015	0.005	ND
Isopulegol	0.0010	0.005	ND
Alpha-Thujone	0.0010	0.005	ND
Fenchone	0.0003	0.005	ND
Sabinene Hydrate	0.0006	0.005	ND
Gamma-Terpinene	0.0002	0.005	ND
Eucalyptol	0.0011	0.005	ND
Cymene*	0.0004	0.005	ND
Alpha-Terpinene	0.0004	0.005	ND
Alpha-Phellandrene	0.0010	0.005	ND

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Terpene Analysis	LOD (%)	LOQ (%)	wt%
(1S)-3-Carene	0.0009	0.005	ND
Sabinene	0.0003	0.005	ND
Total of all quantified terpenes:			2.513

Method: LAB-MTD-044 (ISO 17025:2017 Accredited)

Water Activity Analysis	Result
Water Activity	0.5086aw

Method: LAB-MTD-031

Visual Inspection/Olfactory	Result
Foreign Matter	None Detected
Odour	Characteristic for cannabis
Sample Appearance	Small green dried flower buds

Method: LAB-MTD-022 (ISO 17025:2017 Accredited)

Total Ash Analysis	Result
Total Ash (EP 2.4.16)	7.8428%

Method: LAB-MTD-043

Mycotoxin Analysis	LOD (ppb)	LOQ (ppb)	RL (ppb)	Result (ppb)	Status
Aflatoxin-B1	0.5000	2	2	ND	PASS
Aflatoxin-B2	0.5000	2		ND	
Aflatoxin-G1	0.3000	2		ND	
Aflatoxin-G2	0.6000	2		ND	

Sum of Aflatoxins: 4 0 PASS

Method: LAB-MTD-010 (ISO 17025:2017 Accredited)

Ochratoxin-A	5.6000	20	20	ND	PASS
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Method: LAB-MTD-010 (ISO 17025:2017 Accredited)

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Sudz/CS-076-25
SUDZ2504011CB

Microbial Analysis	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
Total Yeast and Mold Count	100	500	< 100	PASS
Total Aerobic Count	10	50,000	< 10	PASS
Salmonella			Absent in 25g	PASS
S.aureus/P.aeruginosa			Absent in 1g	PASS
E.coli			Absent in 1g	PASS
Bile-Tolerant Gram-Negative	100	100	< 100	PASS

Method: MIC-MTD-001 (ISO 17025:2017 Accredited), MIC-MTD-012 (ISO 17025:2017 Accredited)

Heavy Metals Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Arsenic	0.034	0.2	0.2	ND	PASS
Cadmium	0.016	0.06	0.3	ND	PASS
Lead	0.014	0.49	0.5	ND	PASS
Mercury	0.009	0.06	0.1	ND	PASS

Method: LAB-MTD-050 (ISO 17025:2017 Accredited)

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EP 2.8.13 Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Acephate	0.0422	0.10	0.10	ND	PASS
Alachlor	0.0170	0.05	0.05	ND	PASS
Aldrin and Dieldrin (Sum of)	0.0238	0.05	0.05	ND	PASS
Azinphos-ethyl	0.0416	0.10	0.10	ND	PASS
Azinphos-methyl	0.1154	1.00	1.00	ND	PASS
Bromophos-ethyl	0.0241	0.05	0.05	ND	PASS
Bromophos-methyl	0.0195	0.05	0.05	ND	PASS
Bromopropylate	0.0874	3.00	3.00	ND	PASS
Chlordane (Sum of cis-, trans- and oxychlordane)	0.0236	0.05	0.05	ND	PASS
Chlorfenvinphos	0.0694	0.50	0.50	ND	PASS
Chlorpyrifos-ethyl	0.0396	0.20	0.20	ND	PASS
Chlorpyrifos-methyl	0.0281	0.10	0.10	ND	PASS
Chlorthal-dimethyl	0.0032	0.01	0.01	ND	PASS
Cyfluthrin (Sum of)	0.0300	0.10	0.10	ND	PASS
Cypermethrin and isomers (Sum of)	0.0632	1.00	1.00	ND	PASS
DDT (Sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE and p,p'-TDE)	0.2493	1.00	1.00	ND	PASS
Deltamethrin	0.1299	0.50	0.50	ND	PASS
Diazinon	0.0836	0.50	0.50	ND	PASS
Dichlofluanid	0.0341	0.10	0.10	ND	PASS
Dichlorvos	0.0589	1.00	1.00	ND	PASS
Dicofol	0.1476	0.50	0.50	ND	PASS
Dimethoate and omethoate (Sum of)	0.0416	0.10	0.10	ND	PASS
Dithiocarbamates (Expressed as CS ₂)	0.1133	2.00	2.00	ND	PASS
Endosulfan (Sum of isomers and endosulfan sulfate)	0.0836	3.00	3.00	ND	PASS
Endrin	0.0113	0.05	0.05	ND	PASS
Ethion	0.0474	2.00	2.00	ND	PASS
Etrimphos	0.0190	0.05	0.05	ND	PASS
Fenchlorophos (Sum of fenchlorophos and fenchlorophos-oxon)	0.0498	0.10	0.10	ND	PASS
Fenitrothion	0.1398	0.50	0.50	ND	PASS
Fenpropathrin	0.0084	0.03	0.03	ND	PASS
Fensulfothion (Sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxonsulfon and fensulfothion-sulfon)	0.0247	0.05	0.05	ND	PASS
Fenthion (Sum of fenthion, fenthion-oxon, fenthion-oxon-sulfon, fenthion-oxon-sulfoxid, fenthion-sulfon and fenthion-sulfoxid)	0.0246	0.05	0.05	ND	PASS

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EP 2.8.13 Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Fenvalerate	0.1202	1.50	1.50	ND	PASS
Flucytrinate	0.0245	0.05	0.05	ND	PASS
Fonophos	0.0205	0.05	0.05	ND	PASS
Heptachlor (Sum of heptachlor, cis-heptachlorepoxyde and trans-heptachlorepoxyde)	0.0230	0.05	0.05	ND	PASS
Hexachlorbenzene	0.0204	0.10	0.10	ND	PASS
Hexachlorocyclohexane (Sum of a-,b-, d- and e)	0.1396	0.30	0.30	ND	PASS
Lambda-Cyhalothrin	0.0860	1.00	1.00	ND	PASS
Lindan (gamma-hexachlorocyclohexane)	0.0574	0.60	0.60	ND	PASS
Malathion and Malaoxon (Sum of)	0.1445	1.00	1.00	ND	PASS
Mecarbam	0.0133	0.05	0.05	ND	PASS
Methacriphos	0.0240	0.05	0.05	ND	PASS
Methamidophos	0.0203	0.05	0.05	ND	PASS
Methidathion	0.0273	0.20	0.20	ND	PASS
Methoxychlor	0.0204	0.05	0.05	ND	PASS
Mirex	0.0031	0.01	0.01	ND	PASS
Monocrotophos	0.0438	0.10	0.10	ND	PASS
Parathion-ethyl and Paraoxon-ethyl (Sum of)	0.1292	0.50	0.50	ND	PASS
Parathion-methyl and Paraoxon-methyl (Sum of)	0.0461	0.20	0.20	ND	PASS
Pendimethalin	0.0463	0.50	0.50	ND	PASS
Pentachloranisol	0.0023	0.01	0.01	ND	PASS
Permethrin and isomers (Sum of)	0.0492	1.00	1.00	ND	PASS
Phosalone	0.0324	0.10	0.10	ND	PASS
Phosmet	0.0209	0.05	0.05	ND	PASS
Piperonyl butoxide	0.1260	3.00	3.00	ND	PASS
Pirimiphos-ethyl	0.0237	0.05	0.05	ND	PASS
Pirimiphos-methyl (Sum of pirimiphos-methyl and N-desethyl-pirimiphos-methyl)	0.1332	4.00	4.00	ND	PASS
Procymidone	0.0404	0.10	0.10	ND	PASS
Profenophos	0.0422	0.10	0.10	ND	PASS
Prothiophos	0.0166	0.05	0.05	ND	PASS
Pyrethrum (Sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II)	0.1233	3.00	3.00	ND	PASS
Quinalphos	0.0177	0.05	0.05	ND	PASS
Quintozene (Sum of quintozene, pentachloraniline and methyl pentachlorophenyl sulfide)	0.0804	1.00	1.00	ND	PASS
S-421	0.0093	0.02	0.02	ND	PASS
Tau-fluvalinate	0.0181	0.05	0.05	ND	PASS

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EP 2.8.13 Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Tecnazene	0.0183	0.05	0.05	ND	PASS
Tetradifon	0.1194	0.30	0.30	ND	PASS
Vinclozolin	0.1031	0.40	0.40	ND	PASS

Method: LAB-MTD-041

Identification A (Macroscopic) European Pharmacopoeia

Complies with monograph

The colour of the sample complies with the monograph.

The whole female inflorescence is a dense or more or less lax panicle, comprising sessile or almost sessile, elongated bracts (about 10 mm long) with dentate margins, intermingled with the flowers.

The fragmented inflorescence comprises parts of the axis of the inflorescence, the bracts and panicle, together with individual flowers or floral organs.

The female flowers are very small (about 2 mm) with a short pedicel.

The perianth is monosepalous and apetalous.

The inflorescence is more or less densely pilose, with covering trichomes and glandular trichomes that produce a sticky resin with an aromatic odour.

The sepal, often referred to as the bracteole, is wrapped around the unilocular ovary which bears two styles, each terminating in a fine, orange-brown stigma that is longer than the calyx.

Method: MIC-MTD-014

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Identification B (Microscopic) European Pharmacopoeia

Complies with monograph

Fragments of trichomes comprising of the stalk or head only; some have a very short stalk, others are sessile; some still have the domed cuticle over the glandular cells while others no longer have it.

Cystolithic and non-cystolithic unicellular covering trichomes; the conical, cystolithic covering trichomes have either thickened walls, a broad base and a curved, pointed end, with a clearly visible, lumpy, globular calcium carbonate deposit, or a narrower base and markedly pitted walls; the non-cystolithic covering trichomes are more elongated and have thickened, smooth walls.

Fragments of the lamina of the bracts comprising the upper epidermis covered by a cuticle, with rectangular cells and cystolithic covering trichomes, and the palisade parenchyma layer with some cells containing a small cluster crystal of calcium oxalate.

Fragments of the axis of the inflorescence comprising cellulose fibres, spiral or annular vessels, and cells of the pith with reticulate walls, some of which contain cluster crystals of calcium oxalate of about 30 µm in diameter.

Method: MIC-MTD-014

Identification C (by HPTLC) EP Monograph

THC dominant (Conforms)

Method: LAB-MTD-061

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