



**Genomics & Therapeutics**

## **Hemp Quality Assurance Testing: Certificate of Analysis**

**Product Description: Rest CBxDrops 2mL/5mL/10mL**

**Expiration Date: JULY 2024**

**Batch Id: TST-D253.277/G259/N261-SD1RT**

**Lot Id: A001RTD**

Terms

LOD: Limit of detection is the lowest amount of a compound that can be distinguished from the absence of that compound.

LOQ: Limit of quantitation is the lowest value of a compound that can be quantified with a specified degree of confidence.

ND: Not detected or less than the limit of detection value.

Units of Measure

mg/mL = Milligrams per milliliter

mg/g = Milligrams per gram

µg/g = Microgram per gram

1 µg/g = 1 parts per million (ppm)

1 µg/kg = Microgram per kilogram = 1 parts per billion (ppb)

cfu/g = Colony forming units/gram

% = Percentage of sample

1 Drop = approximately 0.05ml

Cannabinoid Potency Calculation

Potency per drop = mg/mL X 0.05mL/drop = mg of compound per drop

**Cannabinoids**

SC Laboratories Test ID: 221017M016-001

Compound	Result mg/mL	LOD mg/mL	LOQ mg/mL
CBD	214.656		
CBN	111.380		
CBG	105.511		
CBDV	0.763		
▲ 9-THC	0.115	0.002	0.014
CBL	ND		
CBDa	ND		
CBDVa	ND		
CBGa	ND		
CBCa	ND		
CBC	ND		
▲ 8-THC	ND	0.010	0.020
THCa	ND	0.001	0.005
THCV	ND	0.002	0.012
THCVa	ND	0.002	0.019
Total THC	0.115 (0.0118%)		
Total Cannabinoids	432.425		

**Terpenes & Terpenoids**

SC Laboratories Test ID: 221017M016-001

Compound	Result mg/g	LOD mg/g	LOQ mg/g
Myrcene	3.921		
Linalool	2.957		
β-Caryophyllene	2.641		
Nerolidol	1.411		
Terpineol	1.209		
Limonene	1.046		
Citronellol	0.779		
Nerol	0.680		
α-Phellandrene	0.542		
Terpinolene	0.481		
Valencene	0.402		
α-Humulene	0.305		
Isopulegol	0.197		
β-Pinene	0.125		
Fenchol	0.083		
α-Pinene	0.076		
Caryophyllene Oxide	0.040		
p-Cymene	0.025		
▲ 3-Carene	0.021		
Isoborneol	<LOQ	0.004	0.012
Total Terpenes/Terpenoids	16.941 (1.6941%)		

**Microbial**

SC Laboratories Test ID: 221017M015-002

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Polymerase Chain Reaction (PCR)	Action Limit	Result	Result
Shiga toxin-producing Escherichia coli	Not Detected in 25g	ND	PASS
Salmonella spp.	Not Detected in 25g	ND	PASS

Plating with 3M Petrifilm	Action Limit cfu/g	Result cfu/g	Result
Total Aerobic Bacteria	10000	ND	PASS
Total Yeast and Mold	1000	ND	PASS
Coliforms	100	ND	PASS

#### Mycotoxins

SC Laboratories Test ID: 220817N019-002

Compound	Result (µg/kg)	LOD (µg/kg)	Result
Aflatoxin B1	ND	1.6	PASS
Aflatoxin B2	ND	1.4	PASS
Aflatoxin G1	ND	1.6	PASS
Aflatoxin G2	ND	1.6	PASS
Ochratoxin A	ND	1.6	PASS

#### Pesticides

SC Laboratories Test ID: 220817N019-002

Compound	Result (µg/g)	LOD (µg/g)	Result
Abamectin	ND	0.032	PASS
Acephate	ND	0.006	PASS
Acequinocyl	ND	0.009	PASS
Acetamiprid	ND	0.016	PASS
Aldicarb	ND	0.030	PASS
Allethrin	ND	0.030	PASS
Atrazine	ND	0.006	PASS
Azadirachtin	ND	0.082	PASS
Azoxystrobin	ND	0.003	PASS
Benzovindiflupyr	ND	0.003	PASS
Bifenazate	ND	0.003	PASS
Bifenthrin	ND	0.021	PASS
Boscalid	ND	0.003	PASS
Buprofezin	ND	0.006	PASS
Captan	ND	0.045	PASS
Carbaryl	ND	0.007	PASS
Carbofuran	ND	0.003	PASS
Chlorantraniliprole	ND	0.006	PASS
Chlordane	ND	0.010	PASS

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Chlorfenapyr	ND	0.005	PASS
Chlormequat chloride	ND	0.022	PASS
Chlorpyrifos	ND	0.013	PASS
Clofentezine	ND	0.003	PASS
Clothianidin	ND	0.008	PASS
Coumaphos	ND	0.003	PASS
Cyantraniliprole	ND	0.003	PASS
Cyfluthrin	ND	0.052	PASS
Cypermethrin	ND	0.051	PASS
Cyprodinil	ND	0.003	PASS
Daminozide	ND	0.026	PASS
Deltamethrin	ND	0.059	PASS
Diazinon	ND	0.006	PASS
Dichlorvos (DDVP)	ND	0.012	PASS
Dimethoate	ND	0.003	PASS
Dimethomorph	ND	0.016	PASS
Dinotefuran	ND	0.010	PASS
Diuron	ND	0.013	PASS
Dodemorph	ND	0.012	PASS
Endosulfan sulfate	ND	0.016	PASS
Endosulfan- $\alpha$	ND	0.004	PASS
Endosulfan- $\beta$	ND	0.006	PASS
Ethoprophos	ND	0.003	PASS
Etofenprox	ND	0.014	PASS
Etoxazole	ND	0.007	PASS
Etridiazole	ND	0.002	PASS
Fenhexamid	ND	0.003	PASS
Fenoxycarb	ND	0.003	PASS
Fenpyroximate	ND	0.007	PASS
Fensulfothion	ND	0.003	PASS
Fenthion	ND	0.003	PASS
Fenvalerate	ND	0.033	PASS
Fipronil	ND	0.003	PASS
Flonicamid	ND	0.007	PASS
Fludioxonil	ND	0.003	PASS
Fluopyram	ND	0.003	PASS
Hexythiazox	ND	0.003	PASS
Imazalil	ND	0.003	PASS

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Imidacloprid	ND	0.003	PASS
Iprodione	ND	0.077	PASS
Kinoprene	ND	0.077	PASS
Kresoxim-methyl	ND	0.006	PASS
$\Lambda$ -Cyhalothrin	ND	0.068	PASS
Malathion	ND	0.003	PASS
Metalaxyl	ND	0.003	PASS
Methiocarb	ND	0.003	PASS
Methomyl	ND	0.008	PASS
Methoprene	ND	0.172	PASS
Mevinphos	ND	0.008	PASS
MGK-264	ND	0.015	PASS
Myclobutanil	ND	0.003	PASS
Naled	ND	0.021	PASS
Novaluron	ND	0.002	PASS
Oxamyl	ND	0.017	PASS
Paclobutrazol	ND	0.003	PASS
Parathion-methyl	ND	0.016	PASS
Pentachloronitrobenzene	ND	0.004	PASS
Permethrin	ND	0.056	PASS
Phenothrin	ND	0.016	PASS
Phosmet	ND	0.007	PASS
Piperonyl Butoxide	ND	0.010	PASS
Pirimicarb	ND	0.003	PASS
Prallethrin	ND	0.015	PASS
Propiconazole	ND	0.027	PASS
Propoxur	ND	0.003	PASS
Pyraclostrobin	ND	0.003	PASS
Pyrethrins	ND	0.016	PASS
Pyridaben	ND	0.005	PASS
Pyriproxyfen	ND	0.003	PASS
Resmethrin	ND	0.013	PASS
Spinetoram	ND	0.003	PASS
Spinosad	ND	0.003	PASS
Spirodiclofen	ND	0.031	PASS
Spiromesifen	ND	0.016	PASS
Spirotetramat	ND	0.003	PASS
Spiroxamine	ND	0.020	PASS

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Tebuconazole	ND	0.003	PASS
Tebufenozide	ND	0.003	PASS
Teflubenzuron	ND	0.007	PASS
Tetrachlorvinphos	ND	0.003	PASS
Tetramethrin	ND	0.021	PASS
Thiabendazole	ND	0.006	PASS
Thiacloprid	ND	0.003	PASS
Thiamethoxam	ND	0.003	PASS
Thiophanate-methyl	ND	0.013	PASS
Trifloxystrobin	ND	0.003	PASS

**Residual Solvents**

SC Laboratories Test ID: 220817N019-002/221017M015-002

Compound	Result	LOD µg/g	Limits µg/g	Result
Propane	ND	0.234	500.0	PASS
2-Methylpropane (Isobutane)	ND	0.052	5000.0	PASS
n-Butane	ND	0.019	2000.0	PASS
Total Butanes	ND		500.0	PASS
2-Methylbutane (Isopentane)	ND	0.310	5000.0	PASS
2,2-Dimethylpropane (Neopentane)	ND	0.035	*N/A	PASS
n-Pentane	ND	0.310	1000.0	PASS
Total Pentanes	ND		500.0	PASS
2,2-Dimethylbutane (Neohexane)	ND	9.831	290.0	PASS
2,3-Dimethylbutane/2-Methylpentane	ND	0.381	290.0	PASS
3-Methylpentane	ND	0.109	290.0	PASS
n-Hexane	ND	0.110	60	PASS
Total Hexanes	ND		290.0	PASS
Cyclohexane	ND	0.357	500.0	PASS
2,2-Dimethylpentane (Neoheptane)	ND	0.493	*N/A	PASS
2,3-Dimethylpentane	ND	1.009	*N/A	PASS
2,4-Dimethylpentane	ND	0.737	*N/A	PASS
3,3-Dimethylpentane	ND	0.198	*N/A	PASS
2,2,3-Trimethylbutane (Triptane)	ND	0.521	*N/A	PASS
2-Methylhexane (Isoheptane)	ND	0.610	*N/A	PASS
3-Methylhexane	ND	0.235	*N/A	PASS
3-Ethylpentane	ND	0.304	*N/A	PASS
n-Heptane	61.26	13.120	500	PASS
Total Heptanes	61.26		1000	PASS
Cycloheptane	ND	0.597	*N/A	PASS

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Benzene	ND	0.089	2	PASS
Toluene	0.91	0.115	180	PASS
Isopropylbenzene (Cumene)	ND	0.180	70.0	PASS
1,3-Dimethylbenzene/1,4-Dimethylbenzene	ND	0.451	2170.0	PASS
1,2-Dimethylbenzene (o-Xylene)	ND	0.387	2170.0	PASS
Ethylbenzene	ND	0.370	2170.0	PASS
Total Xylenes	ND		217.0	PASS
Methanol	ND	5.534	500.0	PASS
Ethanol	ND	8.984	1000.0	PASS
1-Propanol	ND	1.540	5000.0	PASS
2-Propanol (Isopropyl Alcohol)	ND	8.421	500.0	PASS
1-Butanol	ND	0.475	5000.0	PASS
2-Butanol	ND	7.248	5000.0	PASS
1-Pentanol	ND	1.461	5000.0	PASS
Acetone	ND	9.510	1000.0	PASS
2-Butanone	ND	0.169	5000.0	PASS
Tetrahydrofuran	ND	0.622	720.0	PASS
Ethyl Ether	ND	0.197	5000.0	PASS
Ethylene Glycol	ND	3.803	620.0	PASS
2-Ethoxyethanol	ND	1.235	160.0	PASS
1,2-Dimethoxyethane	ND	2.116	100	PASS
1,4-Dioxane	ND	0.468	380.0	PASS
Ethylene Oxide	ND	0.253	5.0	PASS
Ethyl Acetate	ND	1.123	1000.0	PASS
Isopropyl Acetate	ND	0.347	5000.0	PASS
Chloroform	ND	0.251	1.0	PASS
Dichloromethane (Methylene Chloride)	ND	2.651	600.0	PASS
Trichloroethylene	ND	0.299	80.0	PASS
1,2-Dichloroethane	ND	0.162	5.0	PASS
1,1-Dichloroethene	ND	0.185	8.0	PASS
1,2-Dichloroethene	ND	0.428	5.0	PASS
Sulfolane	ND	47.660	160.0	PASS
Dimethyl Sulfoxide	ND	6.168	5000.0	PASS
Acetonitrile	ND	1.595	410.0	PASS
Pyridine	ND	0.407	100.0	PASS
N,N-Dimethylacetamide	ND	0.127	1090.0	PASS
N,N-Dimethylformamide	ND	0.946	880.0	PASS

\*N/A-Action limits not established.

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Heavy Metals


SC Laboratories Test ID: 220817N019-002

Compound	Result	LOD µg/g	Limits µg/g	Result
Arsenic	ND	0.0200	0.42	PASS
Cadmium	ND	0.0200	0.27	PASS
Lead	ND	0.0400	0.5	PASS
Mercury	ND	0.0020	0.4	PASS

**Overall Product Status:** **PASS**

This CBx Genetics & Therapeutics product has met all product specifications and testing and is released. This product contains less than 0.3% Delta-9-THC per federal hemp regulations.

Approved By Sign and Date:

 8/2/23

Approved By Sign and Date:

 8/2/23

Approved By Print Name and Position:

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