



**Genomics & Therapeutics**

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

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

**Expiration Date: JULY 2024**

**Batch Id: TST-D253.277/G259/C239-SD1RV**

**Lot Id: A001RVD**

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: 221017M017-001

Compound	Result mg/mL	LOD mg/mL	LOQ mg/mL
CBD	215.295		
CBC	106.513		
CBG	105.878		
CBDV	0.769		
CBN	ND		
CBL	ND		
CBDa	ND		
CBDVa	ND		
CBGa	ND		
CBCa	ND		
▲ 9-THC	ND	0.002	0.014
▲ 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	ND		
Total Cannabinoids	428.455		

**Terpenes & Terpenoids**

SC Laboratories Test ID: 221017M017-001

Compound	Result mg/g	LOD mg/g	LOQ mg/g
α-Pinene	5.617		
Limonene	4.165		
β-Pinene	2.999		
β-Caryophyllene	1.045		
Myrcene	0.936		
Nerolidol	0.712		
Terpinolene	0.701		
Nerol	0.682		
Linalool	0.619		
α-Phellandrene	0.490		
α-Humulene	0.420		
p-Cymene	0.050		
Camphene	0.017		
Eucalyptol	<LOQ	0.006	0.018
Terpineol	<LOQ	0.009	0.031

Valencene	<LOQ	0.009	0.030
Caryophyllene Oxide	<LOQ	0.010	0.033
Total Terpenes/Terpenoids	18.453 (1.8453%)		

#### Microbial

SC Laboratories Test ID: 221017M015-002

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
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

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<b>Fipronil</b>	ND	0.003	PASS
<b>Flonicamid</b>	ND	0.007	PASS
<b>Fludioxonil</b>	ND	0.003	PASS
<b>Fluopyram</b>	ND	0.003	PASS
<b>Hexythiazox</b>	ND	0.003	PASS
<b>Imazalil</b>	ND	0.003	PASS
<b>Imidacloprid</b>	ND	0.003	PASS
<b>Iprodione</b>	ND	0.077	PASS
<b>Kinoprene</b>	ND	0.077	PASS
<b>Kresoxim-methyl</b>	ND	0.006	PASS
<b>Λ-Cyhalothrin</b>	ND	0.068	PASS
<b>Malathion</b>	ND	0.003	PASS
<b>Metalaxyl</b>	ND	0.003	PASS
<b>Methiocarb</b>	ND	0.003	PASS
<b>Methomyl</b>	ND	0.008	PASS
<b>Methoprene</b>	ND	0.172	PASS
<b>Mevinphos</b>	ND	0.008	PASS
<b>MGK-264</b>	ND	0.015	PASS
<b>Myclobutanil</b>	ND	0.003	PASS
<b>Naled</b>	ND	0.021	PASS
<b>Novaluron</b>	ND	0.002	PASS
<b>Oxamyl</b>	ND	0.017	PASS
<b>Paclobutrazol</b>	ND	0.003	PASS
<b>Parathion-methyl</b>	ND	0.016	PASS
<b>Pentachloronitrobenzene</b>	ND	0.004	PASS
<b>Permethrin</b>	ND	0.056	PASS
<b>Phenothrin</b>	ND	0.016	PASS
<b>Phosmet</b>	ND	0.007	PASS
<b>Piperonyl Butoxide</b>	ND	0.010	PASS
<b>Pirimicarb</b>	ND	0.003	PASS
<b>Prallethrin</b>	ND	0.015	PASS
<b>Propiconazole</b>	ND	0.027	PASS
<b>Propoxur</b>	ND	0.003	PASS
<b>Pyraclostrobin</b>	ND	0.003	PASS
<b>Pyrethrins</b>	ND	0.016	PASS
<b>Pyridaben</b>	ND	0.005	PASS
<b>Pyriproxyfen</b>	ND	0.003	PASS
<b>Resmethrin</b>	ND	0.013	PASS

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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
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

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<b>2-Methylhexane (Isoheptane)</b>	ND	0.610	*N/A	PASS
<b>3-Methylhexane</b>	ND	0.235	*N/A	PASS
<b>3-Ethylpentane</b>	ND	0.304	*N/A	PASS
<b>n-Heptane</b>	61.26	13.120	500	PASS
<b>Total Heptanes</b>	61.26		1000	PASS
<b>Cycloheptane</b>	ND	0.597	*N/A	PASS
<b>Benzene</b>	ND	0.089	2	PASS
<b>Toluene</b>	0.91	0.115	180	PASS
<b>Isopropylbenzene (Cumene)</b>	ND	0.180	70.0	PASS
<b>1,3-Dimethylbenzene/1,4-Dimethylbenzene</b>	ND	0.451	2170.0	PASS
<b>1,2-Dimethylbenzene (o-Xylene)</b>	ND	0.387	2170.0	PASS
<b>Ethylbenzene</b>	ND	0.370	2170.0	PASS
<b>Total Xylenes</b>	ND		217.0	PASS
<b>Methanol</b>	ND	5.534	500.0	PASS
<b>Ethanol</b>	ND	8.984	1000.0	PASS
<b>1-Propanol</b>	ND	1.540	5000.0	PASS
<b>2-Propanol (Isopropyl Alcohol)</b>	ND	8.421	500.0	PASS
<b>1-Butanol</b>	ND	0.475	5000.0	PASS
<b>2-Butanol</b>	ND	7.248	5000.0	PASS
<b>1-Pentanol</b>	ND	1.461	5000.0	PASS
<b>Acetone</b>	ND	9.510	1000.0	PASS
<b>2-Butanone</b>	ND	0.169	5000.0	PASS
<b>Tetrahydrofuran</b>	ND	0.622	720.0	PASS
<b>Ethyl Ether</b>	ND	0.197	5000.0	PASS
<b>Ethylene Glycol</b>	ND	3.803	620.0	PASS
<b>2-Ethoxyethanol</b>	ND	1.235	160.0	PASS
<b>1,2-Dimethoxyethane</b>	ND	2.116	100	PASS
<b>1,4-Dioxane</b>	ND	0.468	380.0	PASS
<b>Ethylene Oxide</b>	ND	0.253	5.0	PASS
<b>Ethyl Acetate</b>	ND	1.123	1000.0	PASS
<b>Isopropyl Acetate</b>	ND	0.347	5000.0	PASS
<b>Chloroform</b>	ND	0.251	1.0	PASS
<b>Dichloromethane (Methylene Chloride)</b>	ND	2.651	600.0	PASS
<b>Trichloroethylene</b>	ND	0.299	80.0	PASS
<b>1,2-Dichloroethane</b>	ND	0.162	5.0	PASS
<b>1,1-Dichloroethene</b>	ND	0.185	8.0	PASS
<b>1,2-Dichloroethene</b>	ND	0.428	5.0	PASS
<b>Sulfolane</b>	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.

**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:

Approved By Sign and Date:

 8/2/2023

 8/2/2023

Approved By Print Name and Position:

Approved By Print Name and Position:

Dr. Mark T. Muller, Senior Scientist

Dr. Rick Rabon, Senior Scientist

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