CERTIFICATE OF ANALYSIS

Date : Wednesday, June 10, 2020

CUSTOMER INFORMATION	SAMPLE INFORMATION	TESTING LAB
Customer: New River Distilling **Phone No.:** 732-673-4852 **E-mail:** daniel@nrdistilling.com, breanna@nrdistilling.com	**Sample Name:** CCT_FSD_051520 **Sample Description:** Extracts **Sample ID:** SAMPLE- 2150 **Sample Received On:** 05/26/2020	**East Coast Cannalytics** **3154 State Street, Suite 2010** **Blacksburg, VA 24060** **540-682-3765** **info@ecctestlab.com**

SAMPLE IMAGES

TESTS INFORMATION

CANNABINOID POTENCY, HEAVY METALS, PESTICIDES, MYCOTOXINS, RESIDUAL SOLVENTS, MICROBIOLOGICAL IMPURITY,

RESULTS CERTIFIED BY: LAB DIRECTOR

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CANNABINOID POTENCY				
ANALYTE	**LOD (mg/g)**	**LOQ (mg/g)**	**Concentration (mg/g)**	**Concentration (%)**
CBD	0.00	0.01	879.42	87.94
CBDA	0.00	0.01	ND	ND
delta-9 THC	0.00	0.01	13.45	1.34
delta-9 THCA	0.00	0.01	ND	ND
CBG	0.00	0.01	ND	ND
CBGA	0.00	0.01	1.64	0.16
CBN	0.00	0.01	3.07	0.31
CBC	0.00	0.01	12.68	1.27
delta-8 THC	0.00	0.01	ND	ND
THCV	0.00	0.01	ND	ND
Total CBD			879.42	87.94
Total THC			13.45	1.34

*Total CBD = CBDA * 0.877 + CBD*
*Total delta-9 THC = THCA * 0.877 + delta-9 THC*

HEAVY METALS		
ANALYTE	**LOD (PPM)**	**RESULTS (PPM)**
Inorganic Arsenic	0.05	ND
Cadmium	0.05	ND
Lead	0.05	0.05
Methyl Mercury	0.05	ND

Recommended limits for heavy metals are NMT 10 ppm for arsenic, NMT 4.1 ppm for cadmium, NMT 10 ppm for lead, and NMT 2 ppm for methyl mercury. These limits are adopted from the American Herbal Pharmacopoeia for Cannabis Inflorescence (2014) which is published by the American Herbal Products Association. Note: Heavy metal limits set by requirements from the Food Safety Program of the Virginia Department of Agriculture and Consumer Services (VDACS) for hemp-derived extract intended for human consumption are different for lead at NMT 6 ppm.

PESTICIDES		
ANALYTE	**LOD (PPM)**	**RESULTS (PPM)**
ALDICARB	0.025	ND
CARBOFURAN	0.025	ND
CHLORPYRIFOS	0.025	ND
DAMINOZIDE	0.025	ND
DICHLORVOS	0.025	ND
DIMETHOATE	0.025	ND
FIPRONIL	0.025	ND
IMAZALIL	0.025	ND
METHIOCARB	0.025	ND
PACLOBUTRAZOL	0.025	ND
THIACLOPRID	0.025	ND
ABAMECTIN	0.025	ND
ACETAMIPRID	0.025	ND
AZOXYSTROBIN	0.025	ND
BIFENAZATE	0.025	ND
BIFENTHRIN	0.025	ND
BOSCALID	0.025	ND
Carbaryl	0.025	ND
Chlorantraniliprole	0.025	ND

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Clofentezine	0.025	ND
Cyfluthrin	0.025	ND
Diazinon	0.025	ND
Etoxazole	0.025	ND
Fenpyroximate	0.025	ND
Flonicamid	0.025	ND
Fludioxonil	0.025	ND
Hexythiazox	0.025	ND
Imidacloprid	0.025	ND
Kresoxim-methyl	0.025	ND
Malathion	0.025	ND
Metalaxyl	0.025	ND
Methomyl	0.025	ND
Myclobutanil	0.025	ND
Naled	0.025	ND
Oxamyl	0.025	ND
Permethrin	0.025	ND
Phosmet	0.025	ND
Piperonylbutoxide	0.025	ND
Spinosad	0.025	ND
Spiromesifen	0.025	ND
Spirotetramat	0.025	ND
Thiamethoxam	0.025	ND
Trifloxystrobin	0.025	ND
Ancymidol	0.025	ND
Ethephon	0.025	ND

MYCOTOXINS		
ANALYTE	**LOD (PPB)**	**RESULTS (PPB)**
Ochratoxin A	1.0	ND
AFLATOXIN B1	1.0	ND
AFLATOXIN B2	1.0	ND
AFLATOXIN G1	1.0	ND
AFLATOXIN G2	1.0	ND

Recommended limits for mycotoxins are NMT 5 ppb for aflatoxin B1 (AFB1) and NMT than 20 ppb for the sum of aflatoxins B1, B2, G1, and G2. These limits are adopted from the United States Pharmacopeial Convention. USP38-NF33 <561> Articles of Botanical Origin.

RESIDUAL SOLVENTS		
ANALYTE	**LOD (PPM)**	**RESULTS (PPM)**
Benzene	0.05	ND
Chloroform	0.05	ND
Cyclohexane	0.05	ND
1,2-Dichloroethane	0.05	ND
Diethyl Ether	0.05	ND
Ethanol	0.05	6.88
Ethyl acetate	0.05	ND
n-Heptane	0.05	ND

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n-Hexane	0.05	ND
Methanol	0.05	5.01
Methylene chloride	0.05	ND
n-Pentane	0.05	ND
2-Propanol (isopropanol)	0.05	ND
Toluene	0.05	ND
Trichloroethene	0.05	ND
Total Xylene	0.05	ND
Acetone	0.05	25.33
Acetonitrile	0.05	ND

Recommended limits for residual solvents are NMT 410 ppm for acetonitrile, NMT than 2 ppm for benzene, NMT than 60 ppm for chloroform, NMT than 3880 ppm for cyclohexane, NMT than 5 ppm for 1,2-Dichloroethane, NMT than 290 ppm for n-Hexane, NMT than 3000 ppm for methanol, NMT than 600 ppm for methylene chloride, NMT than 890 ppm for toluene, NMT than 1500 ppm for trichloroethene, and NMT 2170 for xylene. The residual solvents reported on that do not have limits listed above are considered Class 3 Solvents with a limit of NMT 5000 ppm. These limits are adopted from the United States Pharmacopeial Convention. USP <467> Residual Solvents.

MICROBIOLOGICAL IMPURITY	
Microbe	**CFU/g**
Total Aerobic Microbial Count (TAMC)	0.0
Total Yeast and Mold Count (TYMC)	0.0
Microbe	**Present/Absent**
E. COLI	Absent
SALMONELLA	Absent

Recommended limits[1] for raw plant material is NMT 10^5 for TAMC, NMT 10^3 for TYAC, and the absence of E.coli and Salmonella Spp. Recommended limits[2] for finished products for human consumption in a non-aqueous matrix is NMT 10^3 for TAMC, NMT 10^2 for TYAC, and the absence of E.coli and Salmonella Spp. Recommended limits[2] for finished products for human consumption in an aqueous matrix is NMT 10^2 for TAMC, NMT 10^1 for TYAC, and the absence of E.coli and Salmonella Spp. Recommended limits[2] for products meant for inhalation is NMT 10^2 for TAMC, NMT 10^1 for TYAC, and the absence of E.coli and Salmonella Spp.

[1]Recommendations are adopted from the 'Guidance for State Medical Cannabis Testing Programs' which is published by the Association of Public Health Laboratories (May 2016).

[2]Recommendations are adopted from Section 111 of the United States Pharmacopeia.

Defining Terms:
ND = Not Detected
LOD = Limit of Detection
LOQ = Limit of Quantification
PPM = Parts per Million = mg/kg
PPB = Parts per Billion = ug/kg
NMT = not more than

Prepared by:

Rebecca Hobden

CEO & Lab Manager

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