NORTHEAST LABORATORIES

CERTIFICATE OF ANALYSIS

CTPharma
280 Dividend Dr.
Rocky Hill, CT 06067

Date Received: 12/13/2023
Report Date: 12/21/2023
NELabs Report ID: 2392158-09

Product ID: RAD071923-1

Microbiology	Results (CFU)	Limits (CFU)	Methods
Total Aerobic Microbial Count	<100	100,000	AOAC 990.12
Total Yeast & Mold Count	<100	100,000	AOAC 2014.05
Aspergillus (flavus, fumigatus, terreus, niger)	Not Detected	Not Detected	qPCR
Enteropathogenic *E. coli*	Not Detected	Not Detected	AOAC 2017.01
Listeria Monocytogenes	Not Detected	Not Detected	AOAC 2016.08
Salmonella species	Not Detected	Not Detected	AOAC 2016.01
Shiga Toxin Producing *E. coli*	Not Detected	Not Detected	FDA BAM
Pass/Fail: PASS			

Cannabinoids by HPLC	Results (% w/w[a])
CBDV	----
CBDA	<LOQ
CBGA	0.75
CBG	<LOQ
CBD	----
THCV	----
CBN	----
Δ^9 THC	0.51
CBL	<LOQ
CBC	----
THCA	33.91
Total Cannabinoids	**35.17 %**
Total THC: 30.25 %	

[a]: percentages reported by dry weight

Moisture	Results
Water Content (% w/w)	13.6
Water Activity (Aw)	0.37

Terpenes by GC-MS	Results (% w/w[a])
α-Pinene	0.04
Camphene	0.01
β-Myrcene	0.35
β-Pinene	0.10
3-Carene	----
α-Terpinene	----
Limonene	0.46
Ocimene	----
p-Cymene	----
γ-Terpinene	----
Terpinolene	0.01
Linalool	0.23
(-)-Isopulegol	----
Geraniol	----
β-Caryophyllene	1.07
α-Humulene	0.36
cis-Nerolidol	----
trans-Nerolidol	----
Guaiol	----
α-Bisabolol	----
Total Terpenes: 2.63 %	

[a]: percentages reported by dry weight

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Pesticides by LC-MS/MS	**Results**	**Limits**
Per Sample ≥ 0.5g	Not Detected	Below Action Levels
Pass/Fail: **PASS**		

Heavy Metals by ICP-MS	**Results**	**Limits**
As, Cd, Pb, Hg	Below Detection	Below Action Levels
Pass/Fail: **PASS**		

Mycotoxins by LC-MS/MS	**Results** (µg/kg)	**Limits** (µg/kg)
Aflatoxins (B1, B2, G1, G2)	<20 each	<20 each
Ochratoxin-A	<20	<20
Pass/Fail: **PASS**		

NOTE: Results are for sample(s) submitted to Northeast Laboratories Inc. on 12/13/2023.

Date:	Reviewed by:	Released by:
12/21/23	Michelle Szylobryt, QA / QC	Zachary Cannone, Laboratory Director

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISOILAC-IAF Communiqué dated April 2017).