NORTHEAST LABORATORIES

CERTIFICATE OF ANALYSIS

CTPharma
280 Dividend Dr.
Rocky Hill, CT 06067

Date Received: 06/19/2023
Report Date: 06/30/2023
NELabs Report ID: 2390518-03

Product ID: HE0017

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)
CBDV	----
CBDA	----
CBGA	0.82
CBG	0.15
CBD	1.10
THCV	1.25
CBN	0.66
Δ^9 THC	70.38
CBL	----
CBC	----
THCA	8.39
Total Cannabinoids	**82.75 %**
Total THC: 77.74 %	

Residual Solvent by GC-MS	Results (% w/w)
Butane	0.08
Propane	ND

Terpenes by GC-MS	Results (% w/w)
α-Pinene	0.38
Camphene	0.07
β-Myrcene	0.82
β-Pinene	0.02
3-Carene	----
α-Terpinene	0.01
Limonene	1.60
Ocimene	0.66
p-Cymene	----
γ-Terpinene	0.02
Terpinolene	0.04
Linalool	0.14
(-)-Isopulegol	----
Geraniol	----
β-Caryophyllene	1.49
α-Humulene	0.45
cis-Nerolidol	0.18
trans-Nerolidol	----
Guaiol	----
α-Bisabolol	----
Total Terpenes: 5.88 %	

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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**		

Ingredient Testing by FTIR	**Results** (µg/kg)	**Limits** (µg/kg)
Vitamin E Acetate	Not Detected	Absent
Medium Chain Triglycerides	Not Detected	Absent
Squalene	Not Detected	Absent
Squalane	Not Detected	Absent
Polyethylene Glycol	Not Detected	Absent
Pass/Fail: **PASS**		

NOTE: Results are for sample(s) submitted to Northeast Laboratories Inc. on 06/19/2023.

Date:	Reviewed by:	Released by:
06/30/2023	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).