Quantix Analytics

support@quantixanalytics.com
5540 Centerview Dr Ste 204 #982095, Raleigh, NC 27606

Certificate of Analysis

Lemon Heads

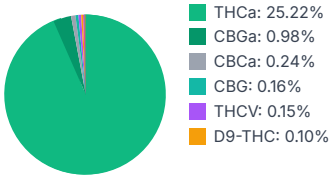
Sample ID: QA202611095608
Matrix: Dried Flower
Sample Size: 1g

Collected: 2026-11-06
Received: 2026-11-09
Completed: 2026-11-10
Batch #: TFQ-1106-62

Client:
Queen City Distribution LLC
4311 School House Commons, PMB 243,
Harrisburg, NC 28075

Lic #: —

Cannabinoid Distribution



Cannabinoids

Complete

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
D9-THC	0.01	0.02	**0.10**	1.04
D8-THC	0.01	0.02	**ND**	ND
THCa	0.01	0.02	**25.22**	252.19
THCP	0.01	0.02	**ND**	ND
THCV	0.01	0.02	**0.15**	1.49
CBD	0.01	0.02	**ND**	ND
CBDa	0.01	0.02	**0.03**	0.25
CBG	0.01	0.02	**0.16**	1.62
CBGa	0.01	0.02	**0.98**	9.80
CBN	0.01	0.02	**0.03**	0.32
CBC	0.01	0.02	**0.09**	0.90
CBCa	0.01	0.02	**0.24**	2.44
Total THC			**22.22**	222.20
Total CBD			**0.02**	0.20
Total Cannabinoids			**27.00**	270.00

25.22%
THCa

0.98%
CBGa

0.24%
CBCa

0.16%
CBG

Summary

Test	Date	Result
Batch	2026-11-10	Complete
Cannabi-noids	2026-11-10	Complete
Moisture	2026-11-10	8.30%

Methodology & Quality Control

Total THC = D9-THC + 0.877 × THCa. Total CBD = CBD + 0.877 × CBDa. Total Cannabinoids = Sum of individual cannabinoids detected. Testing performed using validated HPLC-UV/MS methods per ISO 17025 standards. Unless otherwise stated, all quality control samples performed within specifications. This Certificate applies only to the sample(s) tested and is not a declaration of product safety, efficacy, or regulatory compliance.

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Sarah Mitchell

Sarah Mitchell
Laboratory Director
2026-11-10

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Safety & Compliance Testing

Lemon Heads

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Test Result

PASS

✓ All Safety Tests Passed

This sample has been tested for microbial contaminants, heavy metals, and mycotoxins. All results are within acceptable limits as defined by state regulations and industry standards.

Microbial Contaminants

Pass

Test	Result	Limit	Status
E. coli	ND	ND	Pass
Salmonella	ND	ND	Pass
Total Coliforms	ND	100	Pass
Aspergillus niger	ND	ND	Pass
Aspergillus flavus	ND	ND	Pass
Total Yeast & Mold	ND	1000	Pass
Aspergillus terreus	ND	ND	Pass
Total Aerobic Count	1040	10000	Pass
Aspergillus fumigatus	ND	ND	Pass
Bile-Tolerant Gram-Negative	ND	100	Pass

Heavy Metals Analysis

Pass

Analyte	LOD	LOQ	Result	Limit	Status
Lead (Pb)	0.02	0.05	ND	<0.5	Pass
Arsenic (As)	0.02	0.05	ND	<0.2	Pass
Cadmium (Cd)	0.02	0.05	ND	<0.2	Pass
Mercury (Hg)	0.005	0.02	ND	<0.1	Pass

Mycotoxins

Pass

Analyte	LOD	LOQ	Result	Limit	Status
Aflatoxin B1	1	5	ND	<20	Pass
Aflatoxin B2	1	5	ND	<20	Pass
Aflatoxin G1	1	5	ND	<20	Pass
Aflatoxin G2	1	5	ND	<20	Pass
Ochratoxin A	1	5	ND	<20	Pass

Methodology & Quality Control

All safety and compliance testing is performed in accordance with ISO 17025 accredited laboratory standards. Heavy metals via ICP-MS. Microbial via qPCR. Solvents via HS-GC-MS. Mycotoxins via LC-MS/MS. ND = Not Detected (below Limit of Detection).

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Pesticide Screening

Lemon Heads

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Test Result

PASS

✓ All Pesticide Tests Passed

Category I pesticides are banned substances with zero tolerance. Any detection of these pesticides results in automatic failure and product cannot be sold.

CATEGORY I **Zero Tolerance - 22 Analytes** Any detection = FAIL

Pesticide Analysis - 66 Analytes

Pass

Method: LC-MS/MS | LOD: 0.005-0.05 ppm | LOQ: 0.01-0.1 ppm

Analyte	Result	Status	Analyte	Result	Status
Aldicarb	ND	Pass	Fenoxycarb	ND	Pass
Carbofuran	ND	Pass	Fipronil	ND	Pass
Chlordane	ND	Pass	Imazalil	ND	Pass
Chlorfenapyr	ND	Pass	Methiocarb	ND	Pass
Chlorpyrifos	ND	Pass	Mevinphos	ND	Pass
Coumaphos	ND	Pass	Paclobutrazol	ND	Pass
Daminozide	ND	Pass	Parathion-methyl	ND	Pass
DDVP (Dichlorvos)	ND	Pass	Pentachloronitrobenzene	ND	Pass
Dimethoate	ND	Pass	Propoxur	ND	Pass
Ethoprophos	ND	Pass	Spiroxamine	ND	Pass
Etofenprox	ND	Pass	Thiacloprid	ND	Pass

Methodology & Quality Control

Comprehensive pesticide screening performed using LC-MS/MS in accordance with ISO 17025 standards. Category I pesticides are banned substances with zero tolerance. Category II pesticides have established action levels. All results in ppm. ND = Not Detected.

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Test Result

PASS

✓ All Pesticide Tests Passed

Category II pesticides have established action levels. Results must be below the regulatory limits shown. These pesticides are restricted but allowed at specified concentrations.

CATEGORY II **Action Level - 44 Analytes** Must be below established limits

Analyte	Result	Status
Abamectin	ND	Pass
Acephate	ND	Pass
Acequinocyl	ND	Pass
Acetamiprid	ND	Pass
Azoxystrobin	ND	Pass
Bifenazate	ND	Pass
Bifenthrin	ND	Pass
Boscalid	ND	Pass
Captan	ND	Pass
Carbaryl	ND	Pass
Chlorantraniliprole	ND	Pass
Clofentezine	ND	Pass
Cyfluthrin	ND	Pass
Cypermethrin	ND	Pass
Diazinon	ND	Pass
Dimethomorph	ND	Pass
Etoxazole	ND	Pass
Fenhexamid	ND	Pass
Fenpyroximate	ND	Pass
Flonicamid	ND	Pass
Fludioxonil	ND	Pass
Hexythiazox	ND	Pass

Analyte	Result	Status
Imidacloprid	ND	Pass
Kresoxim-methyl	ND	Pass
Malathion	ND	Pass
Metalaxyl	ND	Pass
Methomyl	ND	Pass
Myclobutanil	ND	Pass
Naled	ND	Pass
Oxamyl	ND	Pass
Permethrin	ND	Pass
Phosmet	ND	Pass
Piperonyl Butoxide	ND	Pass
Prallethrin	ND	Pass
Propiconazole	ND	Pass
Pyrethrins	ND	Pass
Pyridaben	ND	Pass
Spinetoram	ND	Pass
Spinosad	ND	Pass
Spiromesifen	ND	Pass
Spirotetramat	ND	Pass
Tebuconazole	ND	Pass
Thiamethoxam	ND	Pass
Trifloxystrobin	ND	Pass

Methodology & Quality Control

Comprehensive pesticide screening performed using LC-MS/MS in accordance with ISO 17025 standards. Category I pesticides are banned substances with zero tolerance. Category II pesticides have established action levels. All results in ppm. ND = Not Detected.

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Residual Solvents Analysis

Lemon Heads

Sample ID: QA202611095608
Matrix: Dried Flower

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4311 School House Commons, PMB 243,
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Lic #: —

Test Result

PASS

✓ All Solvent Tests Passed

Residual solvents testing per USP <467> standards. Class 1 solvents (carcinogens) have strict limits. Class 2/3 solvents have higher allowable limits. All results in ppm (parts per million).

USP <467> **Residual Solvents - 14 Analytes** HS-GC-MS Analysis

Solvent	Result (ppm)	Limit (ppm)
Acetone	<LOQ	5000
Benzene	<LOQ	2
Butane	<LOQ	5000
Chloroform	<LOQ	2
Ethanol	<LOQ	5000
Ethyl Acetate	<LOQ	5000
Heptane	<LOQ	5000

Solvent	Result (ppm)	Limit (ppm)
Hexane	<LOQ	290
Isopropyl Alcohol	<LOQ	5000
Methanol	<LOQ	3000
Pentane	<LOQ	5000
Propane	<LOQ	5000
Toluene	<LOQ	890
Xylene	<LOQ	2170

Methodology & Quality Control

Residual solvents analysis performed using HS-GC-MS in accordance with USP <467> and ISO 17025 standards. Results are reported in ppm; <LOQ means below the limit of quantitation.

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