SC Labs®

Hemp Quality Assurance Testing
CERTIFICATE OF ANALYSIS

DATE ISSUED 04/15/2025

SAMPLE DETAILS

SAMPLE NAME: OZ Kush BC

Flower, Colorado Hemp/Flower

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: Heal Thyself Gardens
License Number:
Address: 21373 Highway 175 Middletown CA Middletown

SAMPLE DETAIL

Batch Number:
Sample ID: 250130R010
Date of Sampling: 01/30/2025
Time of Sampling: 3:38 p.m.
Sampler Name:
Sampler Company:

Date Collected: 01/30/2025
Date Received: 01/30/2025
Batch Size:
Sample Size: 3.0 grams
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

CALCULATED USING DRY-WEIGHT

Total THC: 0.86%

Total CBD: 19.03%

Sum of Cannabinoids: 25.73%

Total Cannabinoids: 22.69%

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:
Total THC = Δ^9-THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = Δ^9-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8-THC + CBL + CBN
Total Cannabinoids = (Δ^9-THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ^8-THC + CBL + CBN

Moisture: 11.3%

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 1.4125%

β-Caryophyllene 3.758 mg/g | Limonene 2.538 mg/g | α-Humulene 1.325 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: PASS
Mycotoxins: PASS
Heavy Metals: DETECTED
Microbiology (PCR): PASS
Microbiology (Plating): PASS

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: 6 CCR 1010-21 Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations; where applicable

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), µg/g = ppm, µg/kg = ppb, too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Daniel Hardwick
Job Title: Technical Lead
Date: 04/15/2025

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 04/15/2025

Amendment to Certificate of Analysis 250130R010-002

Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD). Calculated using Dry-Weight.

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 0.86%

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 19.03%

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 22.69%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8-THC + CBL + CBN

TOTAL CBG: 1.63%

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 1.08%

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.093%

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 02/02/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBDa	*0.06 / 0.22*	*±6.898*	209.66	20.966
CBGa	*0.1 / 0.4*	*±0.94*	17.4	1.74
CBCa	*0.1 / 0.4*	*±0.79*	11.6	1.16
THCa	*0.04 / 0.24*	*±0.270*	8.42	0.842
CBD	*0.1 / 0.3*	*±0.27*	6.4	0.64
Δ^9-THC	*0.1 / 0.4*	*±0.04*	1.2	0.12
CBDVa	*0.02 / 0.22*	*±0.010*	1.06	0.106
CBG	*0.2 / 0.5*	*±0.07*	1.0	0.10
CBC	*0.1 / 0.2*	*±0.02*	0.6	0.06
Δ^8-THC	*0.05 / 0.50*	*N/A*	ND	ND
THCV	*0.07 / 0.21*	*N/A*	ND	ND
THCVa	*0.05 / 0.17*	*N/A*	ND	ND
CBDV	*0.1 / 0.3*	*N/A*	ND	ND
CBL	*0.1 / 0.4*	*N/A*	ND	ND
CBN	*0.07 / 0.20*	*N/A*	ND	ND
SUM OF CANNABINOIDS			257.3 mg/g	25.73%

MOISTURE TEST RESULT

11.3%

Tested 02/02/2025

Method: QSP 1224 - Loss on Drying (Moisture)

Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

TERPENOID TEST RESULTS - 02/04/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Caryophyllene	*0.004 / 0.013*	*±0.2022*	3.758	0.3758
Limonene	*0.005 / 0.016*	*±0.0827*	2.538	0.2538
α-Humulene	*0.009 / 0.180*	*±0.0713*	1.325	0.1325
Myrcene	*0.007 / 0.025*	*±0.0414*	1.169	0.1169
Linalool	*0.009 / 0.036*	*±0.0310*	0.790	0.0790
α-Bisabolol	*0.008 / 0.026*	*±0.0291*	0.676	0.0676
Guaiol	*0.011 / 0.035*	*±0.0329*	0.605	0.0605
α-Pinene	*0.005 / 0.036*	*±0.0198*	0.553	0.0553
Fenchol	*0.009 / 0.036*	*±0.0166*	0.451	0.0451
Terpineol	*0.008 / 0.025*	*±0.0256*	0.418	0.0418

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Terpenoid Analysis *Continued*

1 β-Caryophyllene
A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB_2 receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

2 Limonene
A monoterpene with a fragrance that can be described as orangey, citrusy, sweet and tart. It is most commonly found in nature as D-Limonene and is a primary contributor to the distinct scent of orange peels, from which it is commonly derived. Found in numerous pines, red maple, silver maple, aspens, cottonwoods, hemlocks, sumac, cedar, junipers...etc.

3 α-Humulene
Also known as α-caryophyllene, it is an isomer of the sesquiterpene β-Caryophyllene which frequently occurs in nature with many aromatic plants across the globe. It has a fragrance that can be described as earthy or musky with spicy undertones. Found in hops, forskohlii, skullcaps, basil, nutmeg, cloves, sage, cotton, tamarind, black pepper, guava, Scotch pine...etc.

TERPENOID TEST RESULTS - 02/04/2025 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Pinene	*0.004 / 0.015*	*±0.0130*	**0.401**	**0.0401**
trans-β-Farnesene	*0.008 / 0.028*	*±0.0176*	**0.308**	**0.0308**
Valencene	*0.010 / 0.180*	*±0.0129*	**0.250**	**0.0250**
β-Ocimene	*0.005 / 0.025*	*±0.0083*	**0.210**	**0.0210**
Caryophyllene Oxide	*0.011 / 0.038*	*±0.0083*	**0.139**	**0.0139**
Borneol	*0.004 / 0.014*	*±0.0059*	**0.127**	**0.0127**
Nerolidol	*0.006 / 0.021*	*±0.0099*	**0.125**	**0.0125**
Eucalyptol	*0.005 / 0.018*	*±0.0038*	**0.095**	**0.0095**
Camphene	*0.004 / 0.014*	*±0.0020*	**0.063**	**0.0063**
Sabinene Hydrate	*0.007 / 0.036*	*±0.0015*	**0.040**	**0.0040**
Terpinolene	*0.008 / 0.036*	*±0.0006*	**0.040**	**0.0040**
γ-Terpinene	*0.005 / 0.018*	*±0.0006*	**0.025**	**0.0025**
Pulegone	*0.003 / 0.010*	*±0.0013*	**0.019**	**0.0019**
α-Terpinene	*0.006 / 0.019*	*N/A*	**<LOQ**	**<LOQ**
Fenchone	*0.008 / 0.036*	*N/A*	**<LOQ**	**<LOQ**
Nerol	*0.003 / 0.036*	*N/A*	**<LOQ**	**<LOQ**
α-Cedrene	*0.005 / 0.017*	*N/A*	**ND**	**ND**
α-Phellandrene	*0.006 / 0.036*	*N/A*	**ND**	**ND**
Camphor	*0.005 / 0.036*	*N/A*	**ND**	**ND**
Cedrol	*0.009 / 0.032*	*N/A*	**ND**	**ND**
Citronellol	*0.003 / 0.036*	*N/A*	**ND**	**ND**
Δ^3-Carene	*0.005 / 0.018*	*N/A*	**ND**	**ND**
Geraniol	*0.002 / 0.036*	*N/A*	**ND**	**ND**
Geranyl Acetate	*0.004 / 0.036*	*N/A*	**ND**	**ND**
Isoborneol	*0.003 / 0.011*	*N/A*	**ND**	**ND**
Isopulegol	*0.004 / 0.036*	*N/A*	**ND**	**ND**
Menthol	*0.008 / 0.025*	*N/A*	**ND**	**ND**
p-Cymene	*0.005 / 0.015*	*N/A*	**ND**	**ND**
Sabinene	*0.004 / 0.014*	*N/A*	**ND**	**ND**
TOTAL TERPENOIDS			**14.125 mg/g**	**1.4125%**

Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). ‡Analytes part of our California Select Panel.

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 02/03/2025 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	*0.032 / 0.097*	*0.1*	*N/A*	**ND**	**PASS**
Acephate	*0.006 / 0.018*	*0.02*	*N/A*	**ND**	**PASS**
Acequinocyl	*0.009 / 0.027*	*0.03*	*N/A*	**ND**	**PASS**
Acetamiprid	*0.016 / 0.049*	*0.1*	*N/A*	**ND**	**PASS**
Aldicarb	*0.030 / 0.090*	*1*	*N/A*	**ND**	**PASS**
Allethrin	*0.030 / 0.092*	*0.2*	*N/A*	**ND**	**PASS**

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 02/03/2025 *continued* PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Atrazine	0.006 / 0.019	0.025	N/A	ND	PASS
Azadirachtin	0.082 / 0.248	1	N/A	ND	PASS
Azoxystrobin	0.003 / 0.009	0.02	N/A	ND	PASS
Benzovindiflupyr	0.003 / 0.009	0.02	N/A	ND	PASS
Bifenazate	0.003 / 0.009	0.02	N/A	ND	PASS
Bifenthrin	0.021 / 0.064	1	N/A	ND	PASS
Boscalid	0.003 / 0.009	0.02	N/A	ND	PASS
Buprofezin‡	0.006 / 0.019	0.02	N/A	ND	PASS
Carbaryl	0.007 / 0.020	0.05	N/A	ND	PASS
Carbofuran	0.003 / 0.008	0.02	N/A	ND	PASS
Chlorantraniliprole	0.006 / 0.018	0.02	N/A	ND	PASS
Chlorfenapyr*	0.005 / 0.015	0.05	N/A	ND	PASS
Chlorpyrifos	0.013 / 0.039	0.04	N/A	ND	PASS
Clofentezine	0.003 / 0.009	0.02	N/A	ND	PASS
Clothianidin	0.008 / 0.025	0.05	N/A	ND	PASS
Coumaphos	0.003 / 0.010	0.02	N/A	ND	PASS
Cyantraniliprole	0.003 / 0.010	0.02	N/A	ND	PASS
Cyfluthrin	0.052 / 0.159	0.2	N/A	ND	PASS
Cypermethrin	0.051 / 0.153	0.3	N/A	ND	PASS
Cyprodinil‡	0.003 / 0.008	0.25	N/A	ND	PASS
Daminozide	0.026 / 0.077	0.1	N/A	ND	PASS
Deltamethrin	0.059 / 0.180	0.5	N/A	ND	PASS
Diazinon	0.006 / 0.017	0.02	N/A	ND	PASS
Dichlorvos (DDVP)	0.012 / 0.038	0.1	N/A	ND	PASS
Dimethoate	0.003 / 0.009	0.02	N/A	ND	PASS
Dimethomorph	0.016 / 0.050	0.05	N/A	ND	PASS
Dinotefuran	0.010 / 0.030	0.1	N/A	ND	PASS
Diuron	0.013 / 0.040	0.125	N/A	ND	PASS
Dodemorph	0.012 / 0.035	0.05	N/A	ND	PASS
Endosulfan sulfate	0.016 / 0.048	0.05	N/A	ND	PASS
Endosulfan-α*	0.004 / 0.014	0.2	N/A	ND	PASS
Endosulfan-β*	0.006 / 0.019	0.05	N/A	ND	PASS
Ethoprophos	0.003 / 0.009	0.02	N/A	ND	PASS
Etofenprox	0.014 / 0.042	0.05	N/A	ND	PASS
Etoxazole	0.007 / 0.020	0.02	N/A	ND	PASS
Etridiazole*	0.002 / 0.005	0.03	N/A	ND	PASS
Fenhexamid	0.003 / 0.008	0.125	N/A	ND	PASS
Fenoxycarb	0.003 / 0.010	0.02	N/A	ND	PASS
Fenpyroximate	0.007 / 0.020	0.02	N/A	ND	PASS
Fensulfothion	0.003 / 0.010	0.02	N/A	ND	PASS
Fenthion	0.003 / 0.010	0.02	N/A	ND	PASS

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 02/03/2025 *continued* PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Fenvalerate‡	*0.033 / 0.099*	*0.1*	*N/A*	ND	PASS
Fipronil	*0.003 / 0.010*	*0.06*	*N/A*	ND	PASS
Flonicamid	*0.007 / 0.022*	*0.05*	*N/A*	ND	PASS
Fludioxonil	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Fluopyram‡	*0.003 / 0.009*	*0.02*	*N/A*	ND	PASS
Hexythiazox	*0.003 / 0.010*	*0.01*	*N/A*	ND	PASS
Imazalil	*0.003 / 0.009*	*0.05*	*N/A*	ND	PASS
Imidacloprid	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Iprodione	*0.077 / 0.233*	*1*	*N/A*	ND	PASS
Kinoprene	*0.077 / 0.233*	*0.5*	*N/A*	ND	PASS
Kresoxim-methyl	*0.006 / 0.019*	*0.02*	*N/A*	ND	PASS
λ-Cyhalothrin	*0.068 / 0.206*	*0.25*	*N/A*	ND	PASS
Malathion	*0.003 / 0.009*	*0.02*	*N/A*	ND	PASS
Metalaxyl	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Methiocarb	*0.003 / 0.008*	*0.02*	*N/A*	ND	PASS
Methomyl	*0.008 / 0.025*	*0.05*	*N/A*	ND	PASS
Methoprene‡	*0.172 / 0.521*	*2*	*N/A*	ND	PASS
Mevinphos	*0.008 / 0.024*	*0.05*	*N/A*	ND	PASS
MGK-264	*0.015 / 0.047*	*0.05*	*N/A*	ND	PASS
Myclobutanil	*0.003 / 0.009*	*0.02*	*N/A*	ND	PASS
Naled	*0.021 / 0.064*	*0.1*	*N/A*	ND	PASS
Novaluron	*0.002 / 0.005*	*0.05*	*N/A*	ND	PASS
Oxamyl	*0.017 / 0.051*	*3*	*N/A*	ND	PASS
Paclobutrazol	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Parathion-methyl	*0.016 / 0.050*	*0.05*	*N/A*	ND	PASS
Pentachloronitro-benzene (Quintozene)*	*0.004 / 0.012*	*0.02*	*N/A*	ND	PASS
Permethrin	*0.056 / 0.168*	*0.5*	*N/A*	ND	PASS
Phenothrin	*0.016 / 0.047*	*0.05*	*N/A*	ND	PASS
Phosmet	*0.007 / 0.020*	*0.02*	*N/A*	ND	PASS
Piperonyl Butoxide	*0.010 / 0.029*	*0.2*	*N/A*	ND	PASS
Pirimicarb	*0.003 / 0.009*	*0.02*	*N/A*	ND	PASS
Prallethrin	*0.015 / 0.046*	*0.05*	*N/A*	ND	PASS
Propiconazole	*0.027 / 0.080*	*0.1*	*N/A*	ND	PASS
Propoxur	*0.003 / 0.008*	*0.02*	*N/A*	ND	PASS
Pyraclostrobin	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Pyrethrins	*0.016 / 0.049*	*0.05*	*N/A*	ND	PASS
Pyridaben	*0.005 / 0.017*	*0.05*	*N/A*	ND	PASS
Pyriproxyfen	*0.003 / 0.009*	*0.01*	*N/A*	ND	PASS
Resmethrin	*0.013 / 0.039*	*0.1*	*N/A*	ND	PASS
Spinetoram	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Spinosad	*0.003 / 0.010*	*0.1*	*N/A*	ND	PASS

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 02/03/2025 *continued* **PASS**

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Spirodiclofen	*0.031 / 0.093*	*0.25*	*N/A*	ND	PASS
Spiromesifen	*0.016 / 0.050*	*3*	*N/A*	ND	PASS
Spirotetramat	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Spiroxamine	*0.020 / 0.062*	*0.1*	*N/A*	ND	PASS
Tebuconazole	*0.003 / 0.010*	*0.05*	*N/A*	ND	PASS
Tebufenozide	*0.003 / 0.008*	*0.02*	*N/A*	ND	PASS
Teflubenzuron	*0.007 / 0.022*	*0.05*	*N/A*	ND	PASS
Tetrachlorvinphos	*0.003 / 0.008*	*0.02*	*N/A*	ND	PASS
Tetramethrin	*0.021 / 0.063*	*0.1*	*N/A*	ND	PASS
Thiabendazole	*0.006 / 0.020*	*0.02*	*N/A*	ND	PASS
Thiacloprid	*0.003 / 0.009*	*0.02*	*N/A*	ND	PASS
Thiamethoxam	*0.003 / 0.010*	*0.02*	*N/A*	ND	PASS
Thiophanate-methyl	*0.013 / 0.040*	*0.05*	*N/A*	ND	PASS
Trifloxystrobin	*0.003 / 0.009*	*0.02*	*N/A*	ND	PASS

Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

MYCOTOXIN TEST RESULTS - 02/03/2025 **PASS**

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	*1.6 / 5.0*	*5*	*N/A*	ND	PASS
Aflatoxin B2	*1.4 / 4.1*		*N/A*	ND	
Aflatoxin G1	*1.6 / 4.9*		*N/A*	ND	
Aflatoxin G2	*1.6 / 5.0*		*N/A*	ND	
Ochratoxin A	*1.6 / 5.0*	*5*	*N/A*	ND	PASS
Total Aflatoxin		*20*		ND	PASS

Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 02/14/2025 **DETECTED**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Arsenic	*0.02 / 0.1*	*N/A*	ND
Cadmium	*0.02 / 0.05*	*N/A*	<LOQ
Lead	*0.04 / 0.1*	*N/A*	ND
Mercury	*0.002 / 0.01*	*±0.000*	0.01

Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 02/17/2025 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
***Salmonella* spp.**	*Not Detected in 1g*	**ND**	**PASS**
Shiga toxin-producing *Escherichia coli*	*Not Detected in 1g*	**ND**	**PASS**

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 02/17/2025 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Coliforms	*100*	**20.0**	**PASS**
Total Aerobic Bacteria	*10000*	**ND**	**PASS**

NOTES
Reason for Amendment: Order Detail Information Change