

CERTIFICATE OF ANALYSIS

Prepared for:

AD Forward Solutions

919 Haywood Rd Unit 111
Asheville, NC 28806

Modified Grapes

Batch ID or Lot Number: MG07232025	Test: Dry Weight Potency	Reported: 25Aug2025	USDA License: NA
Matrix: Plant	Test ID: T000310388	Started: 21Aug2025	Sampler ID: NA
	Method(s): TM14 (HPLC-DAD) \ TM21 (Karl Fischer)	Received: 19Aug2025	Status: NA

Cannabinoids	LOD (%)	LOQ (%)	Dry Weight Result (%)	MU Range (%)	Notes
Cannabichromene (CBC)	0.018	0.066	ND	ND	
Cannabichromenic Acid (CBCA)	0.016	0.061	0.265	0.245 - 0.285	
Cannabidiol (CBD)	0.059	0.161	ND	ND	
Cannabidiolic Acid (CBDA)	0.061	0.166	ND	ND	
Cannabidivarin (CBDV)	0.014	0.038	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.025	0.069	ND	ND	
Cannabigerol (CBG)	0.010	0.038	ND	ND	
Cannabigerolic Acid (CBGA)	0.042	0.157	0.260	0.240 - 0.280	
Cannabinol (CBN)	0.013	0.049	ND	ND	
Cannabinolic Acid (CBNA)	0.029	0.107	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.050	0.187	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.046	0.170	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.040	0.151	29.787	28.180 - 30.394	
Tetrahydrocannabinavarin (THCV)	0.009	0.034	ND	ND	
Tetrahydrocannabinavarinic Acid (THCVA)	0.036	0.133	ND	ND	
Total Cannabinoids			30.312	28.652 - 31.972	
Total Potential THC			27.230	25.821 - 28.639	

Final Approval


Judith Marquez
25Aug2025
02:54:00 PM MDT
PREPARED BY / DATE


Sam Smith
25Aug2025
03:00:00 PM MDT
APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid:d7279d01-3fe9-4b3d-993f-16ad03731bb5>

Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).
Percentage of Delta 9-THC on a dry weight basis = The percentage of Delta 9-THC by weight in cannabis item after excluding all moisture from the item. Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa * (0.877)) and Total CBD = CBD + (CBDA * (0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329-02 Chemical; 4329-03 Biological.



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CERTIFICATE OF ANALYSIS

Prepared for:

AD Forward Solutions

919 Haywood Rd Unit 111
Asheville, NC 28806

Modified Grapes 10/18/2024

Batch ID or Lot Number: MG10182024	Test: Microbial Contaminants	Reported: 07Nov2024	USDA License: NA
Matrix: Plant	Test ID: T000293003	Started: 04Nov2024	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 01Nov2024	Status: NA

Microbial

Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	<LLOQ	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brett Hudson
07Nov2024
02:03:00 PM MST



Nora Langer
07Nov2024
03:56:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/fa38a9cb-ab71-4284-ad57-e99469cb08aa>

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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Cert #4329.02
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CERTIFICATE OF ANALYSIS

Prepared for:

AD Forward Solutions

919 Haywood Rd Unit 111

Asheville, NC 28806

Modified Grapes 10/18/2024

Batch ID or Lot Number: MG10182024	Test: Heavy Metals	Reported: 06Nov2024	USDA License: NA
Matrix: Plant Material	Test ID: T000293004	Started: 06Nov2024	Sampler ID: NA
	Method(s): TM19 (ICP-MS); Heavy Metals	Received: 01Nov2024	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.70	ND	
Cadmium	0.05 - 4.70	ND	
Mercury	0.05 - 4.83	ND	
Lead	0.05 - 5.26	ND	

Final Approval



Judith Marquez
06Nov2024
12:31:00 PM MST



Sam Smith
06Nov2024
03:06:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/ccas/uuid/1977f6a5-a502-4d4c-a025-8d051787b82c>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CERTIFICATE OF ANALYSIS

Prepared for:

AD Forward Solutions

919 Haywood Rd Unit 111
Asheville, NC 28806

Modified Grapes 10/18/2024

Batch ID or Lot Number: MG10182024	Test: Pesticides	Reported: 06Nov2024	USDA License: NA
Matrix: Plant	Test ID: T000293002	Started: 05Nov2024	Sampler ID: NA
	Method(s): TM16 (LC-QQ LC MS/MS)	Received: 01Nov2024	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	365 - 2608	ND	Malathion	318 - 2693	ND
Acephate	20 - 2685	ND	Metalaxyl	284 - 2752	ND
Acetamiprid	42 - 2680	ND	Methiocarb	42 - 2661	ND
Azoxystrobin	80 - 2721	ND	Methomyl	44 - 2744	ND
Bifenazate	300 - 2753	ND	MGK 264 1	185 - 1590	ND
Boscalid	286 - 2672	ND	MGK 264 2	108 - 1092	ND
Carbaryl	43 - 2700	ND	Myclobutanil	43 - 2617	ND
Carbofuran	44 - 2716	ND	Naled	257 - 2685	ND
Chlorantraniliprole	269 - 2681	ND	Oxamyl	44 - 2740	ND
Chlorpyrifos	293 - 2722	ND	Paclobutrazol	47 - 2691	ND
Clofentezine	281 - 2763	ND	Permethrin	246 - 2761	ND
Diazinon	289 - 2717	ND	Phosmet	287 - 2621	ND
Dichlorvos	154 - 2604	ND	Prophos	278 - 2674	ND
Dimethoate	43 - 2712	ND	Propoxur	41 - 2711	ND
E-Fenpyroximate	291 - 2756	ND	Pyridaben	45 - 2791	ND
Etofenprox	42 - 2755	ND	Spinosad A	33 - 2097	ND
Etoxazole	41 - 2687	ND	Spinosad D	9 - 673	ND
Fenoxycarb	111 - 2656	ND	Spiromesifen	49 - 2760	ND
Fipronil	297 - 2700	ND	Spirotetramat	296 - 2808	ND
Flonicamid	51 - 2778	ND	Spiroxamine 1	18 - 1003	ND
Fludioxonil	282 - 2628	ND	Spiroxamine 2	24 - 1590	ND
Hexythiazox	290 - 2770	ND	Tebuconazole	304 - 2750	ND
Imazalil	36 - 2780	ND	Thiacloprid	46 - 2738	ND
Imidacloprid	44 - 2713	ND	Thiamethoxam	43 - 2711	ND
Kresoxim-methyl	270 - 2821	ND	Trifloxystrobin	44 - 2740	ND

Final Approval

Samantha Smith
Sam Smith
06Nov2024
09:18:00 AM MST

K Winterheimer
Karen Winterheimer
06Nov2024
09:23:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/e0f1a9da-2ba8-485e-9a2a-b160cdceba21>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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