16 Tech Circle, Suite 201
Natick, MA, 01760, US
(401) 219-1491

Kaycha Labs

M00003584503: GALACTIC GRAPE-FLOWER BATCH
GALACTIC GRAPE
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured

Certificate of Analysis

Laboratory Sample ID: NA50328004-001

Production Method: Cured
Batch#: FL-GAGR-B-11779
Metrc Source Package # : **1A40A0300006785000011779**
METRC Package#: 1A40A0300006785000022312
Manifest #: 0002819224
Sample Size Received: 8 gram
Servings: 1
Ordered: 03/28/25
Sampled: 03/28/25
Completed: 04/01/25

Apr 01, 2025 | Mayflower - Massachusetts

1100 Innovation Way
Fall River, MA, 02720, US
License# : MC282690

PASSED

SAFETY RESULTS

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filth	Water Activity
PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED	NOT TESTED

MISC.

Moisture	Terpenes
TESTED	TESTED

Cannabinoid

PASSED

Total THC
25.4477%

Total CBD
ND

Total Cannabinoids
30.0295%

	TOTAL TAC	THCA	D9-THC	CBDA	CBD	CBN	CBG	CBGA	THCVA	THCV	CBDV	CBC	D8-THC
%	26.5483	27.1651	1.6240	ND	ND	ND	0.1034	0.9860	0.1510	ND	ND	ND	ND
mg/g	265.483	271.651	16.240	ND	ND	ND	1.034	9.860	1.510	ND	ND	ND	ND
LOD	0.0100	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
LOQ	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by: 735, 990, 1172
Weight: 0.201g
Extraction date: 03/29/25 16:05:46
Extracted by: 1012

Analysis Method : SOP.T.30.031, SOP.T.40.031
Analytical Batch : NA018312POT
Instrument Used : NA-HPLC-004 (Potency - Flower)
Analyzed Date : 03/31/25 13:36:35
Batch Date : 03/28/25 17:08:17

Dilution : 400
Reagent : N/A
Consumables : N/A
Pipette : N/A

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.031 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis. LOQ for all cannabinoids is 0.5 mg/L). Total THC = d9THC + (THCA*0.877). Total CBD = CBD + (CBDA*0.877). Total Cannabinoids = Total of all available cannabinoids. THCVa is pending ISO accreditation.

Margaret Teasdale
Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164

Signature
04/01/25

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GALACTIC GRAPE
Matrix : Plant Material
Type: Flower-Cured

Certificate of Analysis

PASSED

Mayflower - Massachusetts

1100 Innovation Way
Fall River, MA, 02720, US
Telephone: (818) 522-7040
Email: John.Nunes@ianthus.com
License# : MC282690

Sample : NA50328004-001
Batch# : FL-GAGR-B-11779
Sampled : 03/28/25
Ordered : 03/28/25

Sample Size Received : 8 gram
Completed : 04/01/25 **Expires:** 04/01/26
Sample Method : SOP Client Method

Terpenes

TESTED

Terpenes	LOD (%)	LOQ (%)	Pass/Fail	mg/g	Result (%)
BETA-MYRCENE	0.020	0.020	TESTED	15.52	1.552
BETA-CARYOPHYLLENE	0.020	0.020	TESTED	4.18	0.418
LIMONENE	0.020	0.020	TESTED	2.01	0.201
LINALOOL	0.020	0.020	TESTED	1.60	0.160
ALPHA-HUMULENE	0.020	0.020	TESTED	1.50	0.150
ALPHA-BISABOLOL	0.020	0.020	TESTED	1.01	0.101
BETA-PINENE	0.020	0.020	TESTED	0.30	0.030
FENCHYL ALCOHOL	0.020	0.020	TESTED	0.29	0.029
TRANS-NEROLIDOL	0.020	0.020	TESTED	0.26	0.026
ALPHA-TERPINEOL	0.020	0.020	TESTED	0.25	0.025
OCIMENE	0.020	0.020	TESTED	0.21	0.021
3-CARENE	0.020	0.020	TESTED	ND	ND
BORNEOL	0.020	0.020	TESTED	ND	ND
CAMPHENE	0.020	0.020	TESTED	ND	ND
CAMPHOR	0.020	0.020	TESTED	ND	ND
CARYOPHYLLENE OXIDE	0.020	0.020	TESTED	ND	ND
CEDROL	0.002	0.020	TESTED	ND	ND
EUCALYPTOL	0.020	0.020	TESTED	ND	ND
FARNESENE	0.020	0.020	TESTED	ND	ND
FENCHONE	0.020	0.020	TESTED	ND	ND
GERANIOL	0.020	0.020	TESTED	ND	ND
GERANYL ACETATE	0.020	0.020	TESTED	ND	ND
GUAIOL	0.020	0.020	TESTED	ND	ND
HEXAHYDROTHYMOL	0.020	0.020	TESTED	ND	ND
ISOBORNEOL	0.020	0.020	TESTED	ND	ND
ISOPULEGOL	0.020	0.020	TESTED	ND	ND
NEROL	0.020	0.020	TESTED	ND	ND
PULEGONE	0.020	0.020	TESTED	ND	ND
SABINENE	0.020	0.020	TESTED	ND	ND
SABINENE HYDRATE	0.020	0.020	TESTED	ND	ND
TERPINOLENE	0.020	0.020	TESTED	ND	ND
VALENCENE	0.020	0.020	TESTED	ND	ND
ALPHA-CEDRENE	0.020	0.020	TESTED	ND	ND
ALPHA-PHELLANDRENE	0.020	0.020	TESTED	ND	ND
ALPHA-PINENE	0.020	0.020	TESTED	ND	ND
ALPHA-TERPINENE	0.020	0.020	TESTED	ND	ND
CIS-NEROLIDOL	0.020	0.020	TESTED	ND	ND
GAMMA-TERPINENE	0.020	0.020	TESTED	ND	ND
P-CYMENE	0.020	0.020	TESTED	ND	ND

Total (%) 2.713

Analyzed by: 623, 990, 1172
Weight: 0.4975g
Extraction date: 03/29/25 13:34:37
Extracted by: 572

Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA
Analytical Batch : NA01830BTER
Instrument Used : NA-GCMS-004 (Terpenes)
Analyzed Date : 04/01/25 12:51:06
Batch Date : 03/28/25 15:23:54

Dilution : 10
Reagent : 123124.01; 032524.18; 020325.03; 031925.R02
Consumables : 101924CK01; 20220108; 9479291.162; 947.162; 4771029; 4052-629; 1008855823; 264274; GD240002; 323039233
Pipette : NA-014 (P-200); NA-021 (P-20); NA-135

Terpenoid profile screening is performed using Terpene sample preparation SOP.T.30.064.MA and analyzed using a GC-MS using Method SOP.T.40.064.MA which can screen for 39 terpenes. *p-cymene is not an accredited analyte.

Margaret Teasdale
Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164

Signature
04/01/25

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M00003584503: GALACTIC GRAPE-FLOWER BATCH
GALACTIC GRAPE
Matrix : Plant Material
Type: Flower-Cured

Certificate of Analysis

PASSED

Mayflower - Massachusetts

1100 Innovation Way
Fall River, MA, 02720, US
Telephone: (818) 522-7040
Email: John.Nunes@ianthus.com
License# : MC282690

Sample : NA50328004-001
Batch# : FL-GAGR-B-11779
Sampled : 03/28/25
Ordered : 03/28/25

Sample Size Received : 8 gram
Completed : 04/01/25 **Expires:** 04/01/26
Sample Method : SOP Client Method

Pesticides

PASSED

Pesticide	LOD	LOQ	Units	Action Level	Pass/Fail	Result
BIFENTHRIN	2.240	10.000	ppb	10	PASS	ND
BIFENAZATE	2.460	10.000	ppb	10	PASS	ND
ETOXAZOLE	1.790	10.000	ppb	10	PASS	ND
IMAZALIL	3.050	10.000	ppb	10	PASS	ND
IMIDACLOPRID	1.860	10.000	ppb	10	PASS	ND
MYCLOBUTANIL	2.900	10.000	ppb	10	PASS	ND
SPIROMESIFEN	2.970	10.000	ppb	10	PASS	ND
TRIFLOXYSTROBIN	1.560	10.000	ppb	10	PASS	ND

Pesticide	LOD	LOQ	Units	Action Level	Pass/Fail	Result
CYFLUTHRIN *	3.750	10.000	ppb	10	PASS	ND

Analyzed by: 139, 990, 1172 | **Weight:** 0.445g | **Extraction date:** 03/29/25 10:35:25 | **Extracted by:** 795

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA018311PES
Instrument Used : NA-LCMS-003 (Pesticides)
Batch Date : 03/28/25 15:58:42
Analyzed Date : 03/31/25 10:18:46

Dilution : 12.5
Reagent : 031825.R04; 032524.18; 012925.R13; 022025.R04; 060922.01; 031825.R01; 032825.R04; 032525.R01; 032625.R01; 031125.R01
Consumables : 9479291.162; 947.162; 4771029; 12LCM1211R91; 1008855823; GD240002; 264274; 11881901; USEEN02432; USEEZ04083
Pipette : NA-202 (P-200); NA-026 (Dispenser); NA-285 (P-20); NA-307 (P-1000)

Pesticide screen is performed using LC-MS and GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 9 Pesticides. (Method: SOP.T.40.104.MA - Pesticides and Mycotoxins Analysis via LC-MSMS and SOP.T40.154.MA - Volatile Pesticide Analysis vis GC-MSMS).

Analyzed by: 139, 990, 1172 | **Weight:** 0.445g | **Extraction date:** 03/29/25 10:35:25 | **Extracted by:** 795

Analysis Method : SOP.T.40.154.MA
Analytical Batch : NA018318VOL
Instrument Used : NA-GCMS-001 (Volatile Pesticides)
Batch Date : 03/29/25 13:34:21
Analyzed Date : 03/30/25 20:32:52

Dilution : 12.5
Reagent : 031825.R04; 032524.18; 012925.R13; 022025.R04; 060922.01; 031825.R01
Consumables : 9479291.162; 947.162; 4771029; 12LCM1211R91; 1008855823; GD240002; 264274; 11881901
Pipette : NA-202 (P-200); NA-026 (Dispenser); NA-285 (P-20); NA-307 (P-1000)

Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

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GALACTIC GRAPE
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Type: Flower-Cured

Certificate of Analysis

PASSED

Mayflower - Massachusetts

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Fall River, MA, 02720, US
Telephone: (818) 522-7040
Email: John.Nunes@ianthus.com
License# : MC282690

Sample : NA50328004-001
Batch# : FL-GAGR-B-11779
Sampled : 03/28/25
Ordered : 03/28/25
Sample Size Received : 8 gram
Completed : 04/01/25 **Expires:** 04/01/26
Sample Method : SOP Client Method

Microbial — PASSED

Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL COLIFORMS	10	cfu/g	ND	PASS	1000
TOTAL VIABLE AEROBIC BACTERIA	10	cfu/g	ND	PASS	100000
BILE TOLERANT GRAM NEGATIVE BACTERIA	10	cfu/g	ND	PASS	1000
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000
ESCHERICHIA COLI SPECIFIC GENE			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	

Analyzed by: 870, 990, 1172 **Weight:** 0.902g **Extraction date:** 03/28/25 14:53:32 **Extracted by:** 711,388

Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA
Analytical Batch : NA018303MIC
Instrument Used : NA-PCR-001 (Microbial) **Batch Date :** 03/28/25 13:00:42
Analyzed Date : 03/30/25 20:25:13

Dilution : 900
Reagent : 032125.R01; 021325.R22; 022425.03
Consumables : 101924CK01; 418324196C; 8847202-2441; 2401051; 08/09/22; MKCX3680; PG1707; BEL-13166-0001; 01525385; 4771029; 110424CH01; 016403; 351407; 2240626; 50RWM0411W58; X002BSDL8D; 3110; 389408; 21134; 230616; 0001527; 0001976; 7581001032; WO3978; WO3862; WO4285; 0001527; 0001527; 0001482; 0001527; 0000888; 0001920; 7808002019; 0001404; 0001317; WO4412; WO4146; 0001528; 0001528; 0000567165; 0000567011; 0000535389; 1LCJ1111R; 1008646004; 12LCM1211R91; 1010041214; 1009225680
Pipette : NA-001 (P-20, micro); NA-008 (P-10, micro); NA-011 (P-1000, Micro); NA-007 (P-200, micro); NA-003 (P-10 multi, micro); NA-006 (P-200, micro); NA-004 (P-100 multi, micro); NA-010 (P-1000, micro); NA-005 (P-200, micro); NA-002 (P-100 multi, micro); NA-164 (P-10, micro); NA-200 (P-300 multi, micro); NA-208 (P-200, micro); NA-208A (P-1000, micro); NA-207 (P-20, micro); NA-206 (P-20, micro); NA-206A (P-200, micro); NA-207A (P-1000, micro); NA-210 Micro bottle top dispenser; NA-211 Micro bottle top dispenser; NA-212 Micro bottle top dispenser

Mycotoxins — PASSED

Analyte	LOD	LOQ	Units	Result	Pass / Fail	Action Level
AFLATOXIN B1	2.010	5.000	ppb	ND	PASS	20
AFLATOXIN B2	1.960	5.000	ppb	ND	PASS	20
AFLATOXIN G1	1.820	5.000	ppb	ND	PASS	20
AFLATOXIN G2	2.100	5.000	ppb	ND	PASS	20
OCHRATOXIN A	2.190	5.000	ppb	ND	PASS	20
TOTAL AFLATOXINS	1.820	5.000	ppb	ND	PASS	20

Analyzed by: 139, 990, 1172 **Weight:** 0.445g **Extraction date:** 03/29/25 10:35:25 **Extracted by:** 795

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA018317MYC
Instrument Used : NA-LCMS-003 (MYC) **Batch Date :** 03/29/25 13:33:24
Analyzed Date : 03/31/25 10:20:28

Dilution : 12.5
Reagent : 031825.R04; 032524.18; 012925.R13; 022025.R04; 060922.01; 031825.R01; 032825.R04; 032525.R01; 032625.R01; 031125.R01
Consumables : 9479291.162; 947.162; 4771029; 12LCM1211R91; 1008855823; GD240002; 264274; 11881901; USEEN02432; USEEZ04083
Pipette : NA-202 (P-200); NA-026 (Dispenser); NA-285 (P-20); NA-307 (P-1000)

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T40.104.MA Pesticides and Mycotoxins Analysis via LC-MS/MS. LOQ 20 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20 µg/Kg. Ochratoxins must be <20 µg/Kg.

Heavy Metals — PASSED

Metal	LOD	LOQ	Units	Result	Pass / Fail	Action Level
ARSENIC	5.450	10.000	ppb	ND	PASS	200
CADMIUM	5.500	10.000	ppb	ND	PASS	200
MERCURY	3.400	5.000	ppb	7.857	PASS	100
LEAD	8.000	10.000	ppb	ND	PASS	500

Analyzed by: 875, 990, 1172 **Weight:** 0.2275g **Extraction date:** 03/30/25 10:10:32 **Extracted by:** 875

Analysis Method : SOP.T.30.084.MA, SOP.T.40.084.MA
Analytical Batch : NA018309HEA
Instrument Used : NA-ICPMS-002 **Batch Date :** 03/28/25 15:24:45
Analyzed Date : 03/30/25 20:22:00

Dilution : 50
Reagent : 042424.01; 030725.R13; 070224.R04; 070224.R03; 030925.R03; 121624.570; 010925.02; 040224.04
Consumables : 20240202; 110424CH01; 1008855823; GD240002
Pipette : NA-125 (5mL)

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.084.MA Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.084.MA Heavy Metals Analysis via ICP-MS.

Margaret Teasdale
Lab Director

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ISO 17025 Accreditation # 97164

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04/01/25

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GALACTIC GRAPE
Matrix : Plant Material
Type: Flower-Cured

Certificate of Analysis

PASSED

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Email: John.Nunes@ianthus.com
License# : MC282690

Sample : NA50328004-001
Batch# : FL-GAGR-B-11779
Sampled : 03/28/25
Ordered : 03/28/25

Sample Size Received : 8 gram
Completed : 04/01/25 **Expires:** 04/01/26
Sample Method : SOP Client Method

Moisture

TESTED

Analyte	LOD	Units	Result	P/F	Action Level
Moisture Content	0.100	%	8.460	TESTED	

Analyzed by:	Weight:	Extraction date:	Extracted by:
875, 990, 1172	0.473g	03/31/25 08:56:37	875

Analysis Method : SOP.T.40.021.MA
Analytical Batch : NA018302MOI
Instrument Used : NA-038 Moisture Analyzer,NA-236 Moisture Analyzer
Batch Date : 03/28/25 12:57:58
Analyzed Date : 03/31/25 13:23:43

Dilution : N/A
Reagent : 032524.18; 040224.04
Consumables : 321-71571-10; 1008855823; GD240002
Pipette : NA-013 (P-200)

Moisture Content analysis is performed by using a moisture analyzer balance using SOP.T.40.021.MA

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Lab Director

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