16 Tech Circle, Suite 201
Natick, MA, 01760, US
(305) 416-8572

Kaycha Labs

M00001710928: GMO ZKITTLEZ F-1-BULK B BUDS
GMO ZKITTLEZ F-1
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured

Certificate of Analysis

Laboratory Sample ID: NA40816005-011

Batch#: GB-GMOZ-B-15414
Metrc Source Package # : 1A40A0300006785000015414
METRC Package#: 1A40A0300006785000011723
Manifest #: 1710928
Sample Size Received: 8 gram
Servings: 1
Ordered: 08/16/24
Sampled: 08/16/24
Completed: 08/21/24

Aug 21, 2024 | 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	Moisture
PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED	NOT TESTED	PASSED

MISC.

Terpenes **TESTED**

Cannabinoid

PASSED

Total THC 20.7512%

Total CBD ND

Total Cannabinoids 24.8632%

	D9-THC	THCA	CBD	CBDA	CBG	CBN	CBDV	CBGA	THCV	THCVA	CBC	D8-THC
%	0.5874	22.9918	ND	ND	ND	ND	ND	1.1808	ND	0.1032	ND	ND
mg/g	5.874	229.918	ND	ND	ND	ND	ND	11.808	ND	1.032	ND	ND
LOD	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
	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by: 943, 305, 987, 756
Weight: 0.2064g
Extraction date: 08/17/24 11:28:17
Extracted by: 735,943

Analysis Method : SOP.T.30.031, SOP.T.40.031
Analytical Batch : NA015553POT
Instrument Used : NA-HPLC-004 (Potency - Flower)
Analyzed Date : 08/17/24 16:28:45
Reviewed On : 08/19/24 14:16:17
Batch Date : 08/17/24 08:05:41

Dilution : 400
Reagent : 081524.R01; 060424.17; 080624.R02; 080624.R03
Consumables : 112023CK01; 9291.203; 9479291.203; 34623011; 04309042; 1008855823; 1009097331; 210118R; 220215E-15; 324049304
Pipette : NA-012 (P-200); NA-009 (P-1000); NA-205 (P-20)

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.

Jorge Segredo
Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164

Signature
08/21/24

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GMO ZKITTLEZ F-1
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 : NA40816005-011
Batch# : GB-GMOZ-B-15414
Sampled : 08/16/24
Ordered : 08/16/24

Sample Size Received : 8 gram
Completed : 08/21/24 **Expires:** 08/21/25
Sample Method : SOP Client Method

Terpenes

TESTED

Terpenes	LOD (%)	LOQ (%)	mg/g	%	Result (%)
TERPINOLENE	0.020	0.020	8.79	0.879	
BETA-CARYOPHYLLENE	0.020	0.020	4.58	0.458	
OCIMENE	0.020	0.020	2.79	0.279	
ALPHA-HUMULENE	0.020	0.020	1.48	0.148	
BETA-MYRCENE	0.020	0.020	1.38	0.138	
LINALOOL	0.020	0.020	0.88	0.088	
LIMONENE	0.020	0.020	0.87	0.087	
ALPHA-BISABOLOL	0.020	0.020	0.80	0.080	
BETA-PINENE	0.020	0.020	0.71	0.071	
ALPHA-PINENE	0.020	0.020	0.45	0.045	
ALPHA-PHELLANDRENE	0.020	0.020	0.44	0.044	
ALPHA-TERPINEOL	0.020	0.020	0.43	0.043	
ALPHA-TERPINENE	0.020	0.020	0.41	0.041	
3-CARENE	0.020	0.020	0.38	0.038	
GAMMA-TERPINENE	0.020	0.020	0.35	0.035	
SABINENE	0.020	0.020	0.33	0.033	
FARNESENE	0.020	0.020	0.30	0.030	
VALENCENE	0.020	0.020	0.29	0.029	
FENCHYL ALCOHOL	0.020	0.020	0.27	0.027	
CARYOPHYLLENE OXIDE	0.020	0.020	0.26	0.026	
SABINENE HYDRATE	0.020	0.020	0.23	0.023	
BORNEOL	0.020	0.020	0.21	0.021	
TRANS-NEROLIDOL	0.020	0.020	0.21	0.021	
CAMPHENE	0.020	0.020	ND	ND	
CAMPHOR	0.020	0.020	ND	ND	
CEDROL	0.002	0.020	ND	ND	
EUCALYPTOL	0.020	0.020	ND	ND	
FENCHONE	0.020	0.020	ND	ND	
GERANIOL	0.020	0.020	ND	ND	
GERANYL ACETATE	0.020	0.020	ND	ND	
GUAIOL	0.020	0.020	ND	ND	
Total (%)			2.684		

Terpenes	LOD (%)	LOQ (%)	mg/g	%	Result (%)
HEXAHYDROTHYMOL	0.020	0.020	ND	ND	
ISOBORNEOL	0.020	0.020	ND	ND	
ISOPULEGOL	0.020	0.020	ND	ND	
NEROL	0.020	0.020	ND	ND	
PULEGONE	0.020	0.020	ND	ND	
ALPHA-CEDRENE	0.020	0.020	ND	ND	
CIS-NEROLIDOL	0.020	0.020	ND	ND	
P-CYMENE	0.020	0.020	ND	ND	

Analyzed by: 623, 987, 756
Weight: 0.5563g
Extraction date: 08/18/24 09:05:32
Extracted by: 870,623

Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA
Analytical Batch : NA015556TER
Instrument Used : NA-GCMS-002 (Terpenes)
Analyzed Date : 08/20/24 13:07:53
Reviewed On : 08/21/24 13:00:16
Batch Date : 08/17/24 08:08:15

Dilution : 10
Reagent : 032524.17; 041624.04; 073024.24; 081524.R03
Consumables : 112023CK01; 20220108; 9291.203; 9479291.203; 240321-634-A; 4052-629; 1008855823; 1009097331; GD230004; 324049304
Pipette : NA-012 (P-200); NA-017 (P-20); NA-009 (P-1000)

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.

Jorge Segredo
Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164

Signature
08/21/24

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M00001710928: GMO ZKITTLEZ F-1-BULK B BUDS
GMO ZKITTLEZ F-1
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 : NA40816005-011
Batch# : GB-GMOZ-B-15414
Sampled : 08/16/24
Ordered : 08/16/24

Sample Size Received : 8 gram
Completed : 08/21/24 **Expires:** 08/21/25
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, 414, 987, 756
Weight: 0.5004g
Extraction date: 08/17/24 13:10:22
Extracted by: 953,139

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA015549PES
Instrument Used : NA-LCMS-001 (Pesticides)
Analyzed Date : 08/18/24 15:23:31
Reviewed On : 08/19/24 13:46:50
Batch Date : 08/16/24 16:18:46

Dilution : 12.5
Reagent : 081624.R02; 032524.17; 070924.R06; 081524.R05; 060922.01; 081024.R01; 080824.R03; 081024.R02; 072024.R08
Consumables : 9291.203; 9479291.203; 240321-634-A; USEEN01930; USEEZ03656; 1008855823; 1009097331; GD230004; 23-47
Pipette : NA-014 (P-200); NA-026 (Dispenser); 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, 414, 987, 756
Weight: 0.5004g
Extraction date: 08/17/24 13:10:22
Extracted by: 953,139

Analysis Method : SOP.T.40.154.MA
Analytical Batch : NA015570VOL
Instrument Used : NA-GCMS-001 (Volatile Pesticides)
Analyzed Date : 08/18/24 15:24:19
Reviewed On : 08/19/24 13:39:42
Batch Date : 08/18/24 10:21:52

Dilution : 12.5
Reagent : 081624.R02; 032524.17; 070924.R06; 081524.R05; 060922.01; 042524.R06
Consumables : 9291.203; 9479291.203; 240321-634-A; 1008855823; 1009097331; GD230004; 23-47; 18107501
Pipette : NA-014 (P-200); NA-017 (P-20); NA-026 (Dispenser); 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.

Jorge Segredo
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Kaycha Labs

M00001710928: GMO ZKITTLEZ F-1-BULK B BUDS
GMO ZKITTLEZ F-1
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 : NA40816005-011
Batch# : GB-GMOZ-B-15414
Sampled : 08/16/24
Ordered : 08/16/24
Sample Size Received : 8 gram
Completed : 08/21/24 **Expires:** 08/21/25
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	220	PASS	10000
ESCHERICHIA COLI SPECIFIC GENE			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	

Analyzed by: 388, 711, 987, 756
Weight: 1g
Extraction date: 08/17/24 08:22:56
Extracted by: 388,953

Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA
Analytical Batch : NA015544MIC
Instrument Used : NA-PCR-001 (Microbial)
Analyzed Date : N/A
Reviewed On : 08/20/24 13:53:01
Batch Date : 08/16/24 15:43:11

Dilution : 900
Reagent : 070224.R05; 073124.R08; 070924.07
Consumables : 08/09/22; 00252024; 200103-274; BEL-13166-0001; 27922051; 240321-634-A; 120123CH01; 014310; 342404; 008307; 7910110; 505AQG31923; X002BSDL8D; 306321; 21124; 230616; 17723011; 0001432; 0001420; WO3772; WO3862; WO3961; 0001297; 0001297; 0001407; 0001297; 0000887; 0001522; 0001317; 0001155; WO3984; WO3861; 0001072; 0001317; 0000567165; 0000567011; 0000535389; 1008972006; 9LCJ1611R; 220318-306-D; 1009225680; 7573004064; 7805002075
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-213 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	1.955	5.000	ppb	ND	PASS	20
AFLATOXIN G1	1.823	5.000	ppb	ND	PASS	20
AFLATOXIN G2	2.100	5.000	ppb	ND	PASS	20
OCHRATOXIN A	2.194	5.000	ppb	ND	PASS	20
TOTAL AFLATOXINS	1.820	5.000	ppb	ND	PASS	20

Analyzed by: 139, 414, 987, 756
Weight: 0.5004g
Extraction date: 08/17/24 13:10:22
Extracted by: 953,139

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA015571MYC
Instrument Used : NA-LCMS-001 (MYC)
Analyzed Date : 08/18/24 15:23:49
Reviewed On : 08/19/24 13:44:03
Batch Date : 08/18/24 10:22:09

Dilution : 12.5
Reagent : 081624.R02; 032524.17; 070924.R06; 081524.R05; 060922.01; 081024.R01; 080824.R03; 081024.R02; 072024.R08
Consumables : 9291.203; 9479291.203; 240321-634-A; USEEN01930; USEEZ03656; 1008855823; 1009097331; GD230004; 23-47
Pipette : NA-014 (P-200); NA-026 (Dispenser); 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	6.720	10.000	ppb	ND	PASS	200
CADMIUM	9.260	10.000	ppb	11.151	PASS	200
MERCURY	3.400	5.000	ppb	6.938	PASS	100
LEAD	8.850	10.000	ppb	ND	PASS	500

Analyzed by: 827, 987, 756
Weight: 0.3079g
Extraction date: 08/18/24 10:14:51
Extracted by: 827,875

Analysis Method : SOP.T.30.084.MA, SOP.T.40.084.MA
Analytical Batch : NA015564HEA
Instrument Used : NA-ICPMS-001
Analyzed Date : 08/20/24 11:07:29
Reviewed On : 08/20/24 14:46:33
Batch Date : 08/17/24 10:11:46

Dilution : 50
Reagent : 042424.01; 073024.R19; 073024.R18; 080624.R05; 081324.R01; 011024.28; 052124.17; 040224.04
Consumables : 06124032; 34623011; 264849; 1008855823; GD230004
Pipette : NA-016 (P-1000), 365592J; NA-203 (P-200); NA-284 (P-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.

Jorge Segredo
Lab Director

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ISO 17025 Accreditation # 97164

Signature
08/21/24

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GMO ZKITTLEZ F-1
Matrix : Plant Material
Type: Flower-Cured

Certificate of Analysis

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License# : MC282690

Sample : NA40816005-011
Batch# : GB-GMOZ-B-15414
Sampled : 08/16/24
Ordered : 08/16/24

Sample Size Received : 8 gram
Completed : 08/21/24 **Expires:** 08/21/25
Sample Method : SOP Client Method

Moisture

PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Moisture Content	0.100	%	13.200	TESTED	

Analyzed by:	Weight:	Extraction date:	Extracted by:
795, 987, 756	0.515g	08/17/24 16:00:16	795

Analysis Method : SOP.T.40.021.MA
Analytical Batch : NA015552MOI
Reviewed On : 08/17/24 21:07:35
Instrument Used : NA-038 Moisture Analyzer,NA-199 Moisture Analyzer,NA-236 Moisture Analyzer
Batch Date : 08/16/24 17:38:45
Analyzed Date : N/A

Dilution : N/A
Reagent : 032524.17
Consumables : 321-71571-10; 1008855823; GD230004
Pipette : NA-013 (P-200)

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

Jorge Segredo
Lab Director

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Signature
08/21/24