



Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-PR
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS964

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Orig. Completion Date: 2025-05-30

Initial Gross Weight: 28.946 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Statement of Amendment: Updated Heavy Metals



**Potency
Tested**



**HHCP
Tested**



**Pathogenic Microbiology
Passed**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Moisture
Tested**



**Microbiology (qPCR)
Passed**



**Filtration and Foreign
Passed**

Product Image

Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 1024.580 mg

Tested SOP13.001 (LCUV)

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBGA	15.000	8.00E-5	0.0125	80.1500	8.0150
Delta9-THCP *	15.000	1.17E-5	0.01	70.5800	7.0580
Delta-8 THC	15.000	2.60E-5	0.0125	69.7600	6.9760
CBCA	15.000	1.07E-4	0.0125	3.4500	0.3450
CBG	15.000	2.48E-4	0.0125	3.2600	0.3260
Delta-8 THC-O Acetate	15.000	7.70E-5	0.025	2.9500	0.2950
Delta-8-THCP *	15.000	3.75E-4	0.0125	2.1200	0.2120
Delta-8 THCV	15.000	4.00E-5	0.0125	0.9200	0.0920
CBT	15.000	2.00E-4	0.0125	0.8600	0.0860
CBC	15.000	2.76E-5	0.075	0.8480	0.0848
CBDA	15.000	1.00E-5	0.0125	0.8400	0.0840
THCA-A	15.000	3.20E-5	0.0125	0.7900	0.0790
CBN	15.000	1.40E-5	0.0125	0.5800	0.0580
CBD	15.000	5.40E-5	0.0125	0.2300	0.0230
CBL	15.000	3.50E-5	0.0125	0.2000	0.0200
Delta-8 THC-O Acetate	15.000	2.70E-5	0.025	0.015	0.015
CBDVA	15.000	1.40E-5	0.0125	0.012	0.012
THCB *	15.000	1.80E-4	0.0163	0.011	0.011
THCVA	15.000	4.70E-5	0.0125	0.01	0.01
Delta-10 THC	15.000	3.00E-6	0.0125	<LOQ	<LOQ
Delta-9 THC	15.000	2.80E-4	0.075	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0125	<LOQ	<LOQ
CBDV	15.000	6.50E-5	0.0125	<LOQ	<LOQ
CBNA	15.000	9.50E-5	0.0125	<LOQ	<LOQ
THCH *	15.000	3.50E-4	0.0163	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0125	<LOQ	<LOQ
Total Active CBD	15.000			0.967	0.097
Total Active THC	15.000			0.693	0.069



Potency Summary

Total HHC None Detected	Total Active THC 1.38 mg
Total Active CBD 0.097% 1.94 mg	Total CBG 7.363% 147.26 mg
Total CBN 0.058% 1.16 mg	Total Cannabinoids 23.802% 476.036 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, The results apply to the sample as received. Revised report- see statement of amendment above.

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Moisture

Specimen Weight: N/A Dilution Factor: 1.000

Tested
SOP13.015 (Moisture

Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	8.910



PCR Total Yeast and Mold

Specimen Weight: 986.900 mg

Dilution Factor: 20.000

Passed

SOP13.017

(qPCR)

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	14717

Prep. By: 1161	Date: 2025-05-23 12:13:10	Analyzed By: 1161	Date: 2025-05-23 12:13:10
Reviewed By: 1179	Date: 2025-05-23 20:09:28	Lab Batch #: AAGS964-218	Date: 2025-05-23 20:09:28



Microbiology Pathogenic AE qPCR - (GA)

Specimen Weight: 1035.100 mg

Dilution Factor: 1.000

Passed

SOP13.029 (qPCR)

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Passed	STEC	1	Passed



Filth and Foreign Material - (GA)

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020

(Electronic Balance)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Sampling Method: MSP 7.3.1



Heavy Metals

Specimen Weight: 248.800 mg

Dilution Factor: 200

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	200	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	200	123.561	Mercury (Hg)	.58	100	200	<LOQ

Passed

SOP13.048 (ICP-MS)



Residual Solvents (GA-4)

Specimen Weight: 5.100 mg

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.4167	53.6	800000	<LOQ	Heptane	0.0013	29.8	500000	<LOQ
Ethanol	0.0021	59.5	5000000	182424.700	Hexane	0.068	25	100000	<LOQ

Passed

SOP13.039 (GCMS-HS)



Mycotoxins

Specimen Weight: 586.400 mg

Dilution Factor: 2.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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HHCP HHCP

Specimen Weight: 1024.580 mg
Dilution Factor: 7500.000

Tested

SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.6600E-6	0.075	<LOQ	<LOQ CBC	2.760000E-5	0.075	0.8480	0.0848
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	2.480000E-4	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	7.7800E-6	0.075	<LOQ	<LOQ Delta-9 THC	2.8000E-4	0.075	<LOQ	<LOQ
1(R)-H4-CBD	7.330000E-7	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	1.600000E-4	0.075	<LOQ	<LOQ
1(S)-H4-CBD	6.630000E-7	0.15	<LOQ	<LOQ H2-CBD	1.440000E-7	0.075	<LOQ	<LOQ
9(R)-HHCP	3.0900E-5	0.075	<LOQ	<LOQ Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

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Sampling Method: MSP 7.3.1

Pesticides
Specimen Weight: 586.400 mg
Dilution Factor: 2.560

Passed

SOP13.007 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metalaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	MGK-264	5.8500E-1	10	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etoxadole	9.5000E-2	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ

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Order Date: 2025-05-20
Sample # AAGS963

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.996 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Product Image



**Potency
Tested**

HHCP

Tested



**Pathogenic Microbiology
Passed**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Moisture
Tested**



**Microbiology (qPCR)
Passed**



**Filtration and Foreign
Passed**

Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 944.050 mg

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBGA	15.000	8.00E-5	0.0125	80.7100	8.0710
Delta-8 THC	15.000	2.60E-5	0.0125	72.5600	7.2560
Delta-9-THCP *	15.000	1.17E-5	0.01	66.6100	6.6610
CBCA	15.000	1.07E-4	0.0125	3.5800	0.3580
CBG	15.000	2.48E-4	0.0125	3.2600	0.3260
Delta-9 THC-O Acetate	15.000	7.70E-5	0.025	2.8300	0.2830
Delta-8-THCP *	15.000	3.75E-4	0.0125	2.0200	0.2020
Delta-8 THCV	15.000	4.00E-5	0.0125	0.8700	0.0870
CBDA	15.000	1.00E-5	0.0125	0.8500	0.0850
CBT	15.000	2.00E-4	0.0125	0.8100	0.0810
CBC	15.000	2.76E-5	0.075	0.7910	0.0791
THCA-A	15.000	3.20E-5	0.0125	0.7800	0.0780
CBN	15.000	1.40E-5	0.0125	0.5600	0.0560
CBD	15.000	5.40E-5	0.0125	0.2400	0.0240
CBL	15.000	3.50E-5	0.0125	0.1800	0.0180
CBDA	15.000	1.40E-5	0.0125	0.1300	0.0130
Delta-8 THC-O Acetate	15.000	2.70E-5	0.025	0.012	0.012
THCB *	15.000	1.80E-4	0.0163	0.009	0.009
THCVA	15.000	4.70E-5	0.0125	0.009	0.009
Delta-10 THC	15.000	3.00E-6	0.0125	<LOQ	<LOQ
Delta-9 THC	15.000	2.80E-4	0.075	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0125	<LOQ	<LOQ
CBDV	15.000	6.50E-5	0.0125	<LOQ	<LOQ
CBNA	15.000	9.50E-5	0.0125	<LOQ	<LOQ
THCH *	15.000	3.50E-4	0.0163	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0125	<LOQ	<LOQ
Total Active CBD	15.000			0.985	0.099
Total Active THC	15.000			0.684	0.068

Tested SOP13.001 (LCUV)



Potency Summary

Total HHC None Detected	Total Active THC 0.068% 1.36 mg
Total Active CBD 0.099% 1.98 mg	Total CBG 7.412% 148.24 mg
Total CBN 0.056% 1.12 mg	Total Cannabinoids 23.708% 474.162 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

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Number of Units: 1
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Sampling Method: MSP 7.3.1



Moisture

Specimen Weight: N/A Dilution Factor: 1.000

Tested
SOP13.015 (Moisture

Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	10.330



PCR Total Yeast and Mold

Specimen Weight: 993.400 mg

Dilution Factor: 20.000

Passed

SOP13.017

(qPCR)

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	4015

Prep. By: 1161	Date: 2025-05-23 12:13:10	Analyzed By: 1161	Date: 2025-05-23 12:13:10
Reviewed By: 1179	Date: 2025-05-23 20:09:29	Lab Batch #: AAGS963-218	Date: 2025-05-23 20:09:29



Microbiology Pathogenic AE qPCR - (GA)

Specimen Weight: 1032.000 mg

Dilution Factor: 1.000

Passed

SOP13.029 (qPCR)

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Passed	STEC	1	Passed



Filth and Foreign Material - (GA)

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020

(Electronic Balance)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066
Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS963

Batch # 25135-TOR-THCP-2G-PR-MS
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Initial Gross Weight: 29.996 g
Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30



Heavy Metals

Specimen Weight: 252.100 mg

Dilution Factor: 198

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	200	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	200	128.120	Mercury (Hg)	.58	100	200	<LOQ

Passed

SOP13.048 (ICP-MS)



Residual Solvents (GA-4)

Specimen Weight: 7.100 mg

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.4167	53.6	800000	<LOQ	Heptane	0.0013	29.8	500000	<LOQ
Ethanol	0.0021	59.5	5000000	178379.240	Hexane	0.068	25	100000	<LOQ

Passed

SOP13.039 (GCMS-HS)



Mycotoxins

Specimen Weight: 582.700 mg

Dilution Factor: 2.570

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS963

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.996 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

HHCP

Specimen Weight: 944.050 mg
Dilution Factor: 7500.000

Tested

SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.6600E-6	0.075	<LOQ	<LOQ CBC	2.760000E-5	0.075	0.7910	0.0791
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	2.480000E-4	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	7.7800E-6	0.075	<LOQ	<LOQ Delta-9 THC	2.8000E-4	0.075	<LOQ	<LOQ
1(R)-H4-CBD	7.330000E-7	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	1.600000E-4	0.075	<LOQ	<LOQ
1(S)-H4-CBD	6.630000E-7	0.15	<LOQ	<LOQ H2-CBD	1.440000E-7	0.075	<LOQ	<LOQ
9(R)-HHCP	3.0900E-5	0.075	<LOQ	<LOQ Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS963

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.996 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Pesticides
Specimen Weight: 582.700 mg
Dilution Factor: 2.570

Passed

SOP13.007 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metalaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	MGK-264	5.8500E-1	10	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etoxadole	9.5000E-2	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 251135-TOR-THCP-2G-PR-HDM Test Reg State: Georgia
Batch Date: 2025-05-20
Extracted From: HEMP

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS962

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.121 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Product Image



**Potency
Tested**



**HHCP
Tested**



**Pathogenic Microbiology
Passed**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Moisture
Tested**



**Microbiology (qPCR)
Passed**



**Filtration and Foreign
Passed**

Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 1002.400 mg

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	15.000	2.60E-5	0.0125	86.3700	8.6370
CBGA	15.000	8.00E-5	0.0125	78.9600	7.8960
Delta9-THCP *	15.000	1.17E-5	0.01	77.1100	7.7110
CBCA	15.000	1.07E-4	0.0125	3.5100	0.3510
CBG	15.000	2.48E-4	0.0125	3.2200	0.3220
Delta-9 THC-O Acetate	15.000	7.70E-5	0.025	3.1900	0.3190
Delta8-THCP *	15.000	3.75E-4	0.0125	2.3100	0.2310
Delta-8 THCV	15.000	4.00E-5	0.0125	1.0000	0.1000
CBT	15.000	2.00E-4	0.0125	0.8500	0.0850
CBC	15.000	2.76E-5	0.075	0.8160	0.0816
THCA-A	15.000	3.20E-5	0.0125	0.7800	0.0780
CBDA	15.000	1.00E-5	0.0125	0.7300	0.0730
CBN	15.000	1.40E-5	0.0125	0.6600	0.0660
CBD	15.000	5.40E-5	0.0125	0.2200	0.0220
CBL	15.000	3.50E-5	0.0125	0.2100	0.0210
Delta-8 THC-O Acetate	15.000	2.70E-5	0.025	0.015	0.015
CBDVA	15.000	1.40E-5	0.0125	0.012	0.012
THCB *	15.000	1.80E-4	0.0163	0.011	0.011
THCVA	15.000	4.70E-5	0.0125	0.009	0.009
Delta-10 THC	15.000	3.00E-6	0.0125	<LOQ	<LOQ
Delta-9 THC	15.000	2.80E-4	0.075	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0125	<LOQ	<LOQ
CBDV	15.000	6.50E-5	0.0125	<LOQ	<LOQ
CBNA	15.000	9.50E-5	0.0125	<LOQ	<LOQ
THCH *	15.000	3.50E-4	0.0163	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0125	<LOQ	<LOQ
Total Active CBD	15.000			0.860	0.086
Total Active THC	15.000			0.684	0.068

Tested SOP13.001 (LCUV)



Potency Summary

Total HHC None Detected	Total Active THC 0.068% 1.36 mg
Total Active CBD 0.086% 1.72 mg	Total CBG 7.255% 145.1 mg
Total CBN 0.066% 1.32 mg	Total Cannabinoids 26.0406% 520.812 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (µg/g) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. The results apply to the sample as received. This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard. The tests and/or calibrations marked with an "*" are not ISO/IEC 17025:2017 accredited test results.



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Batch Date: 2025-05-20
Extracted From: HEMP

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS962

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.121 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Moisture

Specimen Weight: **N/A** Dilution Factor: 1.000

Tested
SOP13.015 (Moisture

Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	9.860



PCR Total Yeast and Mold

Specimen Weight: 951.600 mg

Dilution Factor: 20.000

Passed

SOP13.017

(qPCR)

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	<LOQ

Prep. By: 1161	Date: 2025-05-23 12:13:10	Analyzed By: 1161	Date: 2025-05-23 12:13:10
Reviewed By: 1179	Date: 2025-05-23 20:09:30	Lab Batch #: AAGS962-218	Date: 2025-05-23 20:09:30



Microbiology Pathogenic AE qPCR - (GA)

Specimen Weight: 1014.700 mg

Dilution Factor: 1.000

Passed

SOP13.029 (qPCR)

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Passed	STEC	1	Passed



Filth and Foreign Material - (GA)

Specimen Weight: **N/A** Dilution Factor: 1.000

Passed

SOP13.020

(Electronic Balance)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Completion Date: 2025-05-30

Initial Gross Weight: 29.121 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Heavy Metals

Specimen Weight: 246.300 mg

Dilution Factor: 203

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	200	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	200	104.681	Mercury (Hg)	.58	100	200	<LOQ

Passed

SOP13.048 (ICP-MS)



Residual Solvents (GA-4)

Specimen Weight: 15.100 mg

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.4167	53.6	800000	<LOQ	Heptane	0.0013	29.8	500000	<LOQ
Ethanol	0.0021	59.5	5000000	131925.100	Hexane	0.068	25	100000	<LOQ

Passed

SOP13.039 (GCMS-HS)



Mycotoxins

Specimen Weight: 590.600 mg

Dilution Factor: 2.540

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

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Order Date: 2025-05-20
Sample # AAGS962

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.121 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

HHCP HHCP

Specimen Weight: 1002.400 mg
Dilution Factor: 7500.000

Tested

SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.6600E-6	0.075	<LOQ	<LOQ CBC	2.760000E-5	0.075	0.8160	0.0816
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	2.480000E-4	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	7.7800E-6	0.075	<LOQ	<LOQ Delta-9 THC	2.8000E-4	0.075	<LOQ	<LOQ
1(R)-H4-CBD	7.330000E-7	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	1.600000E-4	0.075	<LOQ	<LOQ
1(S)-H4-CBD	6.630000E-7	0.15	<LOQ	<LOQ H2-CBD	1.440000E-7	0.075	<LOQ	<LOQ
9(R)-HHCP	3.0900E-5	0.075	<LOQ	<LOQ Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

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Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS962

Sampling Date: 2025-05-23 Initial Gross Weight: 29.121 g
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Pesticides
Specimen Weight: 590.600 mg
Dilution Factor: 2.540

Passed

SOP13.007 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metalaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	MGK-264	5.8500E-1	10	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etoxadole	9.5000E-2	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis
Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-GFR Test Reg State: Georgia
Batch Date: 2025-05-20
Extracted From: HEMP

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS961

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.367 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Product Image



**Potency
Tested**

HHCP

Tested



Pathogenic Microbiology
Passed



Heavy Metals
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Moisture
Tested



Microbiology (qPCR)
Passed



Filtration and Foreign
Passed

**Potency (LCUV) (GA) + Potency
25 (LCUV)**

Tested

SOP13.001 (LCUV)

Specimen Weight: 994.400 mg

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	15.000	2.60E-5	0.0125	77.9900	7.7990
CBGA	15.000	8.00E-5	0.0125	73.8400	7.3840
Delta9-THCP *	15.000	1.17E-5	0.01	70.9000	7.0900
CBCA	15.000	1.07E-4	0.0125	3.5400	0.3540
CBDA	15.000	1.00E-5	0.0125	3.0300	0.3030
Delta-9 THC-O Acetate	15.000	7.70E-5	0.025	2.9400	0.2940
CBG	15.000	2.48E-4	0.0125	2.8500	0.2850
Delta8-THCP *	15.000	3.75E-4	0.0125	2.2300	0.2230
Delta-8 THCV	15.000	4.00E-5	0.0125	0.9700	0.0970
CBT	15.000	2.00E-4	0.0125	0.8600	0.0860
CBC	15.000	2.76E-5	0.075	0.8000	0.0800
THCA-A	15.000	3.20E-5	0.0125	0.7700	0.0770
CBN	15.000	1.40E-5	0.0125	0.5700	0.0570
CBD	15.000	5.40E-5	0.0125	0.3500	0.0350
CBL	15.000	3.50E-5	0.0125	0.2100	0.0210
CBDA	15.000	1.40E-5	0.0125	0.1300	0.0130
Delta-8 THC-O Acetate	15.000	2.70E-5	0.025	0.012	0.012
THCB *	15.000	1.80E-4	0.0163	0.01	0.01
THCVA	15.000	4.70E-5	0.0125	0.009	0.009
Delta-10 THC	15.000	3.00E-6	0.0125	<LOQ	<LOQ
Delta-9 THC	15.000	2.80E-4	0.075	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0125	<LOQ	<LOQ
CBDV	15.000	6.50E-5	0.0125	<LOQ	<LOQ
CBNA	15.000	9.50E-5	0.0125	<LOQ	<LOQ
THCH *	15.000	3.50E-4	0.0163	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0125	<LOQ	<LOQ
Total Active CBD	15.000			3.007	0.301
Total Active THC	15.000			0.675	0.068



Potency Summary

Total HHC None Detected	Total Active THC 1.36 mg
Total Active CBD 0.301% 6.02 mg	Total CBG 6.768% 135.36 mg
Total CBN 0.057% 1.14 mg	Total Cannabinoids 24.229% 484.58 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. The results apply to the sample as received.
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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066
Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS961

Batch # 25135-TOR-THCP-2G-PR-GFR
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.367 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Moisture
Specimen Weight: **N/A** Dilution Factor: 1.000

Tested
SOP13.015 (Moisture
Meter)
Result (%)
8.200

Analyte	Action Level (%)
Moisture	15

PCR Total Yeast and Mold
Specimen Weight: 1005.400 mg
Dilution Factor: 20.000

Passed
SOP13.017
(qPCR)

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	<LOQ
Prep. By: 1161	Date: 2025-05-23 12:13:10	Analyzed By: 1161	Date: 2025-05-23 12:13:10
Reviewed By: 1179	Date: 2025-05-23 20:09:32	Lab Batch #: AAGS961-218	Date: 2025-05-23 20:09:32

Microbiology Pathogenic AE qPCR - (GA)
Specimen Weight: 1046.100 mg
Dilution Factor: 1.000

Passed
SOP13.029 (qPCR)

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Passed	STEC	1	Passed

Filth and Foreign Material - (GA)
Specimen Weight: **N/A** Dilution Factor: 1.000

Passed
SOP13.020
(Electronic Balance)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-GFR
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS961

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.367 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Heavy Metals

Specimen Weight: 248.100 mg

Dilution Factor: 201

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	200	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	200	136.576	Mercury (Hg)	.58	100	200	<LOQ

Passed

SOP13.048 (ICP-MS)



Residual Solvents (GA-4)

Specimen Weight: 7.000 mg

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.4167	53.6	800000	<LOQ	Heptane	0.0013	29.8	500000	<LOQ
Ethanol	0.0021	59.5	5000000	210519.410	Hexane	0.068	25	100000	<LOQ

Passed

SOP13.039 (GCMS-HS)



Mycotoxins

Specimen Weight: 604.400 mg

Dilution Factor: 2.480

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-GFR
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS961

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.367 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

HHCP HHCP

Specimen Weight: 994.400 mg
Dilution Factor: 7500.000

Tested

SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.6600E-6	0.075	<LOQ	<LOQ CBC	2.760000E-5	0.075	0.8000	0.08
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	2.480000E-4	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	7.7800E-6	0.075	<LOQ	<LOQ Delta-9 THC	2.8000E-4	0.075	<LOQ	<LOQ
1(R)-H4-CBD	7.330000E-7	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	1.600000E-4	0.075	<LOQ	<LOQ
1(S)-H4-CBD	6.630000E-7	0.15	<LOQ	<LOQ H2-CBD	1.440000E-7	0.075	<LOQ	<LOQ
9(R)-HHCP	3.0900E-5	0.075	<LOQ	<LOQ Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

Aixa Sun Lab Director/Principal Scientist
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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-GFR
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS961

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.367 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Pesticides
Specimen Weight: 604.400 mg
Dilution Factor: 2.480

Passed

SOP13.007 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metalaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	MGK-264	5.8500E-1	10	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etoxadole	9.5000E-2	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-BP
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS960

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-06-02

Initial Gross Weight: 29.741 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Product Image



**Potency
Tested**



**HHCP
Tested**



**Pathogenic Microbiology
Passed**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Moisture
Tested**



**Microbiology (qPCR)
Passed**



**Filtration and Foreign
Passed**

Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 1061.900 mg

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBGA	15.000	8.00E-5	0.0125	81.9400	8.1940
Delta-8 THC	15.000	2.60E-5	0.0125	69.3600	6.9360
Delta9-THCP *	15.000	1.17E-5	0.01	64.0500	6.4050
CBCA	15.000	1.07E-4	0.0125	3.6000	0.3600
CBG	15.000	2.48E-4	0.0125	3.2200	0.3220
Delta-9 THC-O Acetate	15.000	7.70E-5	0.025	2.6300	0.2630
Delta8-THCP *	15.000	3.75E-4	0.0125	1.9600	0.1960
Delta-8 THCV	15.000	4.00E-5	0.0125	0.8500	0.0850
CBT	15.000	2.00E-4	0.0125	0.8400	0.0840
CBC	15.000	2.76E-5	0.075	0.7920	0.0792
THCA-A	15.000	3.20E-5	0.0125	0.7800	0.0780
CBDA	15.000	1.00E-5	0.0125	0.6900	0.0690
CBN	15.000	1.40E-5	0.0125	0.5500	0.0550
CBD	15.000	5.40E-5	0.0125	0.2200	0.0220
CBL	15.000	3.50E-5	0.0125	0.1800	0.0180
CBDVA	15.000	1.40E-5	0.0125	0.012	0.012
Delta-8 THC-O Acetate	15.000	2.70E-5	0.025	0.01	0.01
THCB *	15.000	1.80E-4	0.0163	0.009	0.009
THCVA	15.000	4.70E-5	0.0125	0.009	0.009
Delta-10 THC	15.000	3.00E-6	0.0125	<LOQ	<LOQ
Delta-9 THC	15.000	2.80E-4	0.075	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0125	<LOQ	<LOQ
CBDV	15.000	6.50E-5	0.0125	<LOQ	<LOQ
CBNA	15.000	9.50E-5	0.0125	<LOQ	<LOQ
THCH *	15.000	3.50E-4	0.0163	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0125	<LOQ	<LOQ
Total Active CBD	15.000			0.825	0.083
Total Active THC	15.000			0.684	0.068

Tested

SOP13.001 (LCUV)



Potency Summary

Total HHC None Detected	Total Active THC 0.068% 1.36 mg
Total Active CBD 0.083% 1.66 mg	Total CBG 7.516% 150.32 mg
Total CBN 0.055% 1.1 mg	Total Cannabinoids 23.206% 464.124 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. The results apply to the sample as received.
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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-BP
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS960

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-06-02

Initial Gross Weight: 29.741 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Moisture

Specimen Weight: **N/A** Dilution Factor: 1.000

Tested
SOP13.015 (Moisture

Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	9.040



PCR Total Yeast and Mold

Specimen Weight: 994.800 mg

Dilution Factor: 20.000

Passed

SOP13.017

(qPCR)

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	<LOQ

Prep. By: 1161	Date: 2025-05-23 12:13:10	Analyzed By: 1161	Date: 2025-05-23 12:13:10
Reviewed By: 1179	Date: 2025-05-23 20:09:29	Lab Batch #: AAGS960-218	Date: 2025-05-23 20:09:29



Microbiology Pathogenic AE qPCR - (GA)

Specimen Weight: 1039.300 mg

Dilution Factor: 1.000

Passed

SOP13.029 (qPCR)

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Passed	STEC	1	Passed



Filth and Foreign Material - (GA)

Specimen Weight: **N/A** Dilution Factor: 1.000

Passed

SOP13.020

(Electronic Balance)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-BP
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS960

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-06-02

Initial Gross Weight: 29.741 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Heavy Metals

Specimen Weight: 247.300 mg

Dilution Factor: 202

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	200	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	200	150.721	Mercury (Hg)	.58	100	200	<LOQ

Passed

SOP13.048 (ICP-MS)



Residual Solvents (GA-4)

Specimen Weight: 15.200 mg

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.4167	53.6	800000	<LOQ	Heptane	0.0013	29.8	500000	<LOQ
Ethanol	0.0021	59.5	5000000	135705.030	Hexane	0.068	25	100000	<LOQ

Passed

SOP13.039 (GCMS-HS)



Mycotoxins

Specimen Weight: 586.900 mg

Dilution Factor: 2.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-BP
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS960

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-06-02

Initial Gross Weight: 29.741 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

HHCP HHCP

Specimen Weight: 1061.900 mg
Dilution Factor: 7500.000

Tested

SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.6600E-6	0.075	<LOQ	<LOQ CBC	2.760000E-5	0.075	0.7920	0.0792
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	2.480000E-4	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	7.7800E-6	0.075	<LOQ	<LOQ Delta-9 THC	2.8000E-4	0.075	<LOQ	<LOQ
1(R)-H4-CBD	7.330000E-7	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	1.600000E-4	0.075	<LOQ	<LOQ
1(S)-H4-CBD	6.630000E-7	0.15	<LOQ	<LOQ H2-CBD	1.440000E-7	0.075	<LOQ	<LOQ
9(R)-HHCP	3.0900E-5	0.075	<LOQ	<LOQ Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Compliance Test

Client Information:

Torch
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Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-BP
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS960

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-06-02

Initial Gross Weight: 29.741 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Pesticides
Specimen Weight: 586.900 mg
Dilution Factor: 2.560

Passed

SOP13.007 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metalaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	MGK-264	5.8500E-1	10	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etoxadole	9.5000E-2	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-SSD
Batch Date: 2025-05-20
Extracted From: HEMP

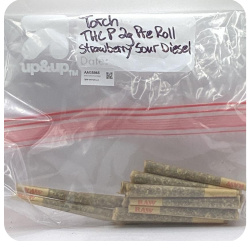
Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS965

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.219 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Product Image



**Potency
Tested**



**HHCP
Tested**



**Pathogenic Microbiology
Passed**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Moisture
Tested**



**Microbiology (qPCR)
Passed**



**Filtration and Foreign
Passed**

Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 1003.820 mg

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBGA	15.000	8.00E-5	0.0125	82.0300	8.2030
Delta-8 THC	15.000	2.60E-5	0.0125	68.6500	6.8650
Delta9-THCP *	15.000	1.17E-5	0.01	68.6000	6.8600
CBCA	15.000	1.07E-4	0.0125	3.5200	0.3520
CBG	15.000	2.48E-4	0.0125	3.1400	0.3140
Delta-9 THC-O Acetate	15.000	7.70E-5	0.025	2.9100	0.2910
Delta8-THCP *	15.000	3.75E-4	0.0125	2.0700	0.2070
Delta-8 THCV	15.000	4.00E-5	0.0125	0.8900	0.0890
CBT	15.000	2.00E-4	0.0125	0.8400	0.0840
THCA-A	15.000	3.20E-5	0.0125	0.7800	0.0780
CBDA	15.000	1.00E-5	0.0125	0.7500	0.0750
CBC	15.000	2.76E-5	0.075	0.0682	0.0682
CBN	15.000	1.40E-5	0.0125	0.5800	0.0580
CBD	15.000	5.40E-5	0.0125	0.2200	0.0220
CBL	15.000	3.50E-5	0.0125	0.1900	0.0190
CBDVA	15.000	1.40E-5	0.0125	0.1300	0.0130
Delta-8 THC-O Acetate	15.000	2.70E-5	0.025	0.012	0.012
THCB *	15.000	1.80E-4	0.0163	0.01	0.01
THCVA	15.000	4.70E-5	0.0125	0.01	0.01
Delta-10 THC	15.000	3.00E-6	0.0125	<LOQ	<LOQ
Delta-9 THC	15.000	2.80E-4	0.075	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0125	<LOQ	<LOQ
CBDV	15.000	6.50E-5	0.0125	<LOQ	<LOQ
CBNA	15.000	9.50E-5	0.0125	<LOQ	<LOQ
THCH *	15.000	3.50E-4	0.0163	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0125	<LOQ	<LOQ
Total Active CBD	15.000			0.878	0.088
Total Active THC	15.000			0.684	0.068

Tested

SOP13.001 (LCUV)



Potency Summary

Total HHC None Detected	Total Active THC 1.36 mg
Total Active CBD 0.088% 1.76 mg	Total CBG 7.516% 150.32 mg
Total CBN 0.058% 1.16 mg	Total Cannabinoids 23.63% 472.604 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

Aixia Sun
Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantification, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. The results apply to the sample as received. This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard. The tests and/or calibrations marked with an "*" are not ISO/IEC 17025:2017 accredited test results.



Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-SSD
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS965

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.219 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Moisture

Specimen Weight: **N/A** Dilution Factor: 1.000

Tested
SOP13.015 (Moisture

Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	9.500



PCR Total Yeast and Mold

Specimen Weight: 1034.500 mg

Dilution Factor: 20.000

Passed

SOP13.017

(qPCR)

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	<LOQ

Prep. By: 1161	Date: 2025-05-23 12:13:10	Analyzed By: 1161	Date: 2025-05-23 12:13:10
Reviewed By: 1179	Date: 2025-05-23 20:09:31	Lab Batch #: AAGS965-218	Date: 2025-05-23 20:09:31



Microbiology Pathogenic AE qPCR - (GA)

Specimen Weight: 1021.300 mg

Dilution Factor: 1.000

Passed

SOP13.029 (qPCR)

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Passed	STEC	1	Passed



Filth and Foreign Material - (GA)

Specimen Weight: **N/A** Dilution Factor: 1.000

Passed

SOP13.020

(Electronic Balance)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Torch
9245 Research Drive
Irvine, California 90066

Batch # 25135-TOR-THCP-2G-PR-SSD
Batch Date: 2025-05-20
Extracted From: HEMP

Test Reg State: Georgia

Order # TER250520-060001
Order Date: 2025-05-20
Sample # AAGS965

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.219 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1



Heavy Metals

Specimen Weight: 248.100 mg

Dilution Factor: 201

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	200	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	200	128.522	Mercury (Hg)	.58	100	200	<LOQ

Passed

SOP13.048 (ICP-MS)



Residual Solvents (GA-4)

Specimen Weight: 15.300 mg

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.4167	53.6	800000	<LOQ	Heptane	0.0013	29.8	500000	<LOQ
Ethanol	0.0021	59.5	5000000	134601.940	Hexane	0.068	25	100000	<LOQ

Passed

SOP13.039 (GCMS-HS)



Mycotoxins

Specimen Weight: 583.200 mg

Dilution Factor: 2.570

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed

SOP13.007 (LCMS)

Aixa Sun Lab Director/Principal Scientist
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Order Date: 2025-05-20
Sample # AAGS965

Sampling Date: 2025-05-23
Lab Batch Date: 2025-05-23
Completion Date: 2025-05-30

Initial Gross Weight: 29.219 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

HHCP HHCP

Specimen Weight: 1003.820 mg
Dilution Factor: 7500.000

Tested

SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.6600E-6	0.075	<LOQ	<LOQ CBC	2.760000E-5	0.075	<LOQ	<LOQ
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	2.480000E-4	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	7.7800E-6	0.075	<LOQ	<LOQ Delta-9 THC	2.8000E-4	0.075	<LOQ	<LOQ
1(R)-H4-CBD	7.330000E-7	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	1.600000E-4	0.075	<LOQ	<LOQ
1(S)-H4-CBD	6.630000E-7	0.15	<LOQ	<LOQ H2-CBD	1.440000E-7	0.075	<LOQ	<LOQ
9(R)-HHCP	3.0900E-5	0.075	<LOQ	<LOQ Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

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Completion Date: 2025-05-30

Initial Gross Weight: 29.219 g

Number of Units: 1
Net Weight per Unit: 2000.000 mg
Sampling Method: MSP 7.3.1

Pesticides
Specimen Weight: 583.200 mg
Dilution Factor: 2.570

Passed

SOP13.007 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metalaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	MGK-264	5.8500E-1	10	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etoxadole	9.5000E-2	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Flonicamid	5.1700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ

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