

## Twenty One Cannabis - Hemp Brownies - THC + CBD - Double Chocolate Cake

 Sample ID: SA-250108-54823  
 Batch: 24182011203  
 Type: Finished Product - Ingestible  
 Matrix: Edible - Baked Good  
 Unit Mass (g): 30.27246

 Received: 01/10/2025  
 Completed: 01/22/2025

**Client**  
 Twenty One  
 1291 Northwest 65th Pl  
 Fort Lauderdale, FL 33309  
 USA


### Summary

Test	Date Tested	Status
Cannabinoids	01/16/2025	Tested
Foreign Matter	01/13/2025	Tested
Heavy Metals	01/22/2025	Passed
Microbials	01/21/2025	Passed
Mycotoxins	01/15/2025	Passed
Pesticides	01/15/2025	Passed
Residual Solvents	01/14/2025	Passed

<b>0.130 %</b> Total Δ9-THC	<b>0.130 %</b> Δ9-THC	<b>0.253 %</b> Total Cannabinoids	<b>Not Tested</b> Moisture Content	<b>Not Detected</b> Foreign Matter	<b>Yes</b> Internal Standard Normalization
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### Cannabinoids by HPLC-PDA

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/unit)
CBC	0.00095	0.00284	ND	ND
CBCA	0.00181	0.00543	ND	ND
CBCV	0.0006	0.0018	ND	ND
CBD	0.00081	0.00242	0.124	37.5
CBDA	0.00043	0.0013	ND	ND
CBDV	0.00061	0.00182	ND	ND
CBDVA	0.00021	0.00063	ND	ND
CBG	0.00057	0.00172	ND	ND
CBGA	0.00049	0.00147	ND	ND
CBL	0.00112	0.00335	ND	ND
CBLA	0.00124	0.00371	ND	ND
CBN	0.00056	0.00169	ND	ND
CBNA	0.0006	0.00181	ND	ND
CBT	0.0018	0.0054	ND	ND
Δ8-THC	0.00104	0.00312	<LOQ	<LOQ
Δ9-THC	0.00076	0.00227	0.130	39.3
Δ9-THCA	0.00084	0.00251	ND	ND
Δ9-THCV	0.00069	0.00206	<LOQ	<LOQ
Δ9-THCVA	0.00062	0.00186	ND	ND
<b>Total Δ9-THC</b>			<b>0.130</b>	<b>39.3</b>
<b>Total</b>			<b>0.253</b>	<b>76.7</b>

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA \* 0.877 + Δ9-THC; Total CBD = CBDA \* 0.877 + CBD;



 Generated By: Ryan Bellone  
 CCO  
 Date: 01/22/2025



 Tested By: Kelsey Rogers  
 Scientist  
 Date: 01/16/2025

 ISO/IEC 17025:2017 Accredited  
 Accreditation #108651


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### Heavy Metals by ICP-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F
Arsenic	0.002	0.02	<LOQ	P
Cadmium	0.001	0.02	<LOQ	P
Lead	0.002	0.02	<LOQ	P
Mercury	0.012	0.05	ND	P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates



 Generated By: Ryan Bellone  
 CCO  
 Date: 01/22/2025



 Tested By: Chris Farman  
 Scientist  
 Date: 01/22/2025


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### Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Abamectin	30	100	ND	P	Hexythiazox	30	100	ND	P
Acequinocyl	30	100	ND	P	Imazalil	30	100	ND	P
Acetamiprid	30	100	ND	P	Imidacloprid	30	100	ND	P
Azoxystrobin	30	100	ND	P	Kresoxim methyl	30	100	ND	P
Bifenazate	30	100	ND	P	Malathion	30	100	ND	P
Bifenthrin	30	100	ND	P	Metaxyl	30	100	ND	P
Boscalid	30	100	ND	P	Methiocarb	30	100	ND	P
Carbaryl	30	100	ND	P	Myclobutanil	30	100	ND	P
Carbofuran	30	100	ND	P	Naled	30	100	ND	P
Chlorantraniliprole	30	100	ND	P	Paclotrazol	30	100	ND	P
Chlorfenapyr	30	100	ND	P	Permethrin	30	100	ND	P
Chlorpyrifos	30	100	ND	P	Phosmet	30	100	ND	P
Clofentezine	30	100	ND	P	Piperonyl Butoxide	30	100	ND	P
Coumaphos	30	100	ND	P	Propiconazole	30	100	ND	P
Cypermethrin	30	100	ND	P	Pyrethrins	30	100	ND	P
Diazinon	30	100	ND	P	Pyridaben	30	100	ND	P
Dichlorvos	30	100	ND	P	Spinetoram	30	100	ND	P
Dimethoate	30	100	ND	P	Spinosad	30	100	ND	P
Dimethomorph	30	100	ND	P	Spiromesifen	30	100	ND	P
Ethoprophos	30	100	ND	P	Spirotetramat	30	100	ND	P
Etofenprox	30	100	ND	P	Spiroxamine	30	100	ND	P
Etoxazole	30	100	ND	P	Tebuconazole	30	100	ND	P
Fenhexamid	30	100	ND	P	Thiacloprid	30	100	ND	P
Fenoxycarb	30	100	ND	P	Thiamethoxam	30	100	ND	P
Fenpyroximate	30	100	ND	P	Trifloxystrobin	30	100	ND	P
Fipronil	30	100	ND	P					
Fludioxonil	30	100	ND	P					

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates



 Generated By: Ryan Bellone  
 CCO  
 Date: 01/22/2025



 Tested By: Anthony Mattingly  
 Scientist  
 Date: 01/15/2025


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### Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
B1	1	5	ND	P
B2	1	5	ND	P
G1	1	5	ND	P
G2	1	5	ND	P
Ochratoxin A	1	5	ND	P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates



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 Tested By: Anthony Mattingly  
 Scientist  
 Date: 01/15/2025


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### Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	Result (Qualitative)	P/F
Total aerobic count	10	<RL		P
Aspergillus flavus	1		Not Detected per 1 gram	P
Aspergillus fumigatus	1		Not Detected per 1 gram	P
Aspergillus niger	1		Not Detected per 1 gram	P
Aspergillus terreus	1		Not Detected per 1 gram	P
Total coliforms	10	ND		P
Generic E. coli	10	ND		P
Salmonella spp.	1		Not Detected per 1 gram	P
Shiga-toxin producing E. coli (STEC)	1		Not Detected per 1 gram	P
Total yeast and mold count (TYMC)	10	<RL		P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



 Generated By: Ryan Bellone  
 CCO  
 Date: 01/22/2025



 Tested By: Natalia Wright  
 Laboratory Technician  
 Date: 01/21/2025


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### Residual Solvents by HS-GC-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F
Acetone	167	500	ND	P	Ethylene Oxide	0.5	1	ND	P
Acetonitrile	14	41	ND	P	Heptane	167	500	ND	P
Benzene	0.5	1	ND	P	n-Hexane	10	29	ND	P
Butane	167	500	ND	P	Isobutane	167	500	ND	P
1-Butanol	167	500	ND	P	Isopropyl Acetate	167	500	ND	P
2-Butanol	167	500	ND	P	Isopropyl Alcohol	167	500	ND	P
2-Butanone	167	500	ND	P	Isopropylbenzene	167	500	ND	P
Chloroform	2	6	ND	P	Methanol	100	300	ND	P
Cyclohexane	129	388	ND	P	2-Methylbutane	10	29	ND	P
1,2-Dichloroethane	0.5	1	ND	P	Methylene Chloride	20	60	ND	P
1,2-Dimethoxyethane	4	10	ND	P	2-Methylpentane	10	29	ND	P
Dimethyl Sulfoxide	167	500	ND	P	3-Methylpentane	10	29	ND	P
N,N-Dimethylacetamide	37	109	ND	P	n-Pentane	167	500	ND	P
2,2-Dimethylbutane	10	29	ND	P	1-Pentanol	167	500	ND	P
2,3-Dimethylbutane	10	29	ND	P	n-Propane	167	500	ND	P
N,N-Dimethylformamide	30	88	ND	P	1-Propanol	167	500	ND	P
2,2-Dimethylpropane	167	500	ND	P	Pyridine	7	20	ND	P
1,4-Dioxane	13	38	ND	P	Tetrahydrofuran	24	72	ND	P
Ethanol	167	500	ND	P	Toluene	30	89	ND	P
2-Ethoxyethanol	6	16	ND	P	Trichloroethylene	3	8	ND	P
Ethyl Acetate	167	500	ND	P	Xylenes (o-, m-, and p-)	73	217	ND	P
Ethyl Ether	167	500	ND	P					
Ethylbenzene	3	7	ND	P					

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 Tested By: Kelsey Rogers  
 Scientist  
 Date: 01/14/2025


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### Reporting Limit Appendix

#### Heavy Metals - KY 902 KAR 45:190

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Arsenic	1.5	Lead	0.5
Cadmium	0.5	Mercury	1.5

#### Microbials -

Analyte	Limit (CFU/g)	Analyte	Limit (CFU/g)
Total coliforms	100	Total aerobic count	10000
Total yeast and mold count (TYMC)	1000		

#### Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Acetone	5000	Ethylene Oxide	1
Acetonitrile	410	Heptane	5000
Benzene	2	n-Hexane	290
Butane	5000	Isobutane	5000
1-Butanol	5000	Isopropyl Acetate	5000
2-Butanol	5000	Isopropyl Alcohol	5000
2-Butanone	5000	Isopropylbenzene	5000
Chloroform	60	Methanol	3000
Cyclohexane	3880	2-Methylbutane	290
1,2-Dichloroethane	5	Methylene Chloride	600
1,2-Dimethoxyethane	100	2-Methylpentane	290
Dimethyl Sulfoxide	5000	3-Methylpentane	290
N,N-Dimethylacetamide	1090	n-Pentane	5000
2,2-Dimethylbutane	290	1-Pentanol	5000
2,3-Dimethylbutane	290	n-Propane	5000
N,N-Dimethylformamide	880	1-Propanol	5000
2,2-Dimethylpropane	5000	Pyridine	200
1,4-Dioxane	380	Tetrahydrofuran	720
Ethanol	5000	Toluene	890
2-Ethoxyethanol	160	Trichloroethylene	80
Ethyl Acetate	5000	Xylenes (o-, m-, and p-)	2170
Ethyl Ether	5000		
Ethylbenzene	70		

#### Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Abamectin	300	Hexythiazox	2000
Acequinocyl	4000	Imazalil	30
Acetamiprid	5000	Imidacloprid	3000
Azoxystrobin	40000	Kresoxim methyl	1000
Bifenazate	5000	Malathion	5000
Bifenthrin	500	Metaxyl	15000
Boscalid	10000	Methiocarb	30
Carbaryl	500	Myclobutanil	9000
Carbofuran	30	Naled	500
Chloranthraniliprole	40000	Paclobotrazol	30
Chlorfenapyr	30	Permethrin	20000
Chlorpyrifos	30	Phosmet	200
Clofentezine	500	Piperonyl Butoxide	8000
Coumaphos	30	Propiconazole	20000
Cypermethrin	1000	Pyrethrins	1000
Diazinon	200	Pyridaben	3000
Dichlorvos	30	Spinetoram	3000
Dimethoate	30	Spinosad	3000
Dimethomorph	20000	Spiromesifen	12000
Ethoprophos	30	Spirotetramat	13000
Etofenprox	30	Spiroxamine	30
Etozazole	1500	Tebuconazole	2000
Fenhexamide	10000	Thiacloprid	30
Fenoxycarb	30	Thiamethoxam	4500
Fenpyroximate	2000	Trifloxystrobin	30000
Fipronil	30		
Fludioxonil	30000		

#### Mycotoxins - Colorado CDPHE

Analyte	Limit (ppb)	Analyte	Limit (ppb)
B1	5	B2	5
G1	5	G2	5
Ochratoxin A	5		

