

Certificate of Analysis

Reported: November 25, 2025

2525 2nd St
Macon, GA 31206
License #: PHRS001078

Overall Status

Product Name:	Liberty 13: Arnold Palmer Batch #1	Matrix:	Ingestible
Sample Size:	355ml	Received:	11/20/2025
Sample ID:	SAM-111825-0003		



Distributor or Microbusiness:

Name:	Pontoon Brewing Company, LLC
Premises Address:	8601 Dunwoody Place, STE. 500 Sandy Springs, GA 30350
License No.:	13_9097

Potency

Date of Analysis:

Method: HPLC: Level of Uncertainty Available Upon Request

Moisture	Total THC:		Total CBD:		Total CBG:		Total Cannabinoids:	
%	%	mg/pkg	%	mg/pkg	%	mg/pkg	%	mg/pkg
ND	0.003	9.720	0.01	5.020	ND	ND	0.00	14.740

Analyte	LOQ (%)	Results (%)	Results (mg/g)	Results (mg/srv)	Results (mg/pkg)
CBD	0.00	0.01	0.01	5.02	5.02
CBDV	0.00	ND	ND	ND	ND
CBDA	0.00	ND	ND	ND	ND
CBC	0.00	ND	ND	ND	ND
CBCA	0.00	ND	ND	ND	ND
CBG	0.00	ND	ND	ND	ND
CBGA	0.00	ND	ND	ND	ND
CBN	0.00	ND	ND	ND	ND
Δ9-THC	0.00	0.03	0.03	9.72	9.72
Δ8-THC	0.00	ND	ND	ND	ND
THCA	0.00	ND	ND	ND	ND
THCV	0.00	ND	ND	ND	ND
THCp*	0.00	ND	ND	ND	ND
Δ10s-THC	0.00	ND	ND	ND	ND
Δ10r-THC	0.00	ND	ND	ND	ND
Exo-THC	0.00	ND	ND	ND	ND
HHC-s	0.00	ND	ND	ND	ND
HHC-r	0.00	ND	ND	ND	ND
THC-O	0.00	ND	ND	ND	ND

Residual Solvents

Date of Analysis:

Method: GC/MS headspace

Analyte	LOQ (ppb)	Results (ppb)	Limit (ppb)	Status
Carbon-Tetrachloride	150.00	ND	5000000.00	Pass
Methanol	15000.00	ND	800000.00	Pass
Pentane	1500.00	ND	5000000.00	Pass
Ethanol	1500.00	28310.0	5000000.00	Pass
Acetone	1500.00	ND	800000.00	Pass
Isopropanol*	15000.00	ND	5000000.00	Pass
Acetonitrile	15000.00	ND	410000.00	Pass
n-Hexane	1500.00	ND	100000.00	Pass
Chloroform*	150.00	ND	1000.00	Pass
Benzene	150.00	ND	1000.00	Pass
Heptane	150.00	ND	500000.00	Pass
TetrahydrofuranP*	150.00	ND	1000.00	Pass
Toluene	150.00	ND	1000.00	Pass
Xylene (meta-, para-)	300.00	ND	1000.00	Pass
Xylene (ortho-)	150.00	ND	1000.00	Pass
Butane	1500.00	ND	800000.00	Pass
1,2 Dichloroethane*	1500.00	ND	2000.00	Pass
1,1 Dichloroethane*	1500.00	ND	8000.00	Pass
Ethyl Acetate*	1500.00	ND	400000.00	Pass
Ethyl Ether*	1500.00	ND	500000.00	Pass
Ethylene Oxide*	1500.00	ND	5000.00	Pass
Methylene chloride*	1500.00	ND	125000.00	Pass
Propane*	1500.00	ND	5000000.00	Pass
Trichloroethylene*	1500.00	ND	25000.00	Pass

Pesticides

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Date of Analysis:

Method: LC/MS/MS

Analyte	LOQ (ppb)	Results (ppb)	Limit (ppb)	Status
Aldicarb	100.00	ND	100.00	Pass
Carbofuran	100.00	ND	100.00	Pass
Chlordane	100.00	ND	100.00	Pass
Chlorfenapyr	100.00	ND	100.00	Pass
Chlorantraniliprole	100.00	ND	100.00	Pass
Chlorpyrifos	100.00	ND	100.00	Pass
Coumaphos	100.00	ND	100.00	Pass
Daminozide	100.00	ND	100.00	Pass
DDVP	100.00	ND	100.00	Pass
Dimethoate	100.00	ND	100.00	Pass
Ethoprophos	100.00	ND	100.00	Pass
Etofenprox	100.00	ND	100.00	Pass
Fenoxycarb	100.00	ND	100.00	Pass
Fipronil	100.00	ND	100.00	Pass
Imazalil	100.00	ND	100.00	Pass
Methiocarb	100.00	ND	100.00	Pass
Mevinphos	100.00	ND	100.00	Pass
Paclobutrazol	100.00	ND	100.00	Pass
Propoxur	100.00	ND	100.00	Pass
Thiacloprid	100.00	ND	100.00	Pass
Abamectin	100.00	ND	100.00	Pass
Acephate	100.00	ND	100.00	Pass
Acequinocyl	100.00	ND	100.00	Pass
Acetamiprid	100.00	ND	100.00	Pass
Azoxystrobin	100.00	ND	100.00	Pass
Bifenazate	100.00	ND	100.00	Pass
Bifenthrin	100.00	ND	100.00	Pass
Boscalid*	100.00	ND	100.00	Pass
Captan	1000.00	ND	0.00	Pass
Carbaryl	100.00	ND	100.00	Pass
Clofentezine	100.00	ND	500.00	Pass
Chlormequat Chloride	100.00	ND	100.00	Pass
Cyfluthrin	100.00	ND	100.00	Pass
Cypermethrin	100.00	ND	100.00	Pass
Diazinon	100.00	ND	100.00	Pass
Dimethomorph	100.00	ND	100.00	Pass
Etoxazole	100.00	ND	100.00	Pass
Fenhexamid	100.00	ND	100.00	Pass
Fenpyroximate	100.00	ND	2000.00	Pass
Flonicamid	100.00	ND	100.00	Pass
Fludioxonil	100.00	ND	100.00	Pass
Fluoxastrobin	100.00	ND	100.00	Pass
Hexythiazox	100.00	ND	100.00	Pass
Imidacloprid	100.00	ND	100.00	Pass
Kresoxim Methyl	100.00	ND	100.00	Pass
Malathion	100.00	ND	100.00	Pass
Metalaxyl	100.00	ND	100.00	Pass
Methomyl	100.00	ND	100.00	Pass
Methyl Parathion	100.00	ND	100.00	Pass

Analyte	LOQ (ppb)	Results (ppb)	Limit (ppb)	Status	Page 4 of 5
Myclobutanil	100.00	ND	100.00	Pass	
Naled	100.00	ND	100.00	Pass	
Oxamyl	100.00	ND	100.00	Pass	
PentachloronitrobenzenePCNB	100.00	ND	0.00	Pass	
Permethrin	100.00	ND	100.00	Pass	
Phosmet (Imidan)	100.00	ND	100.00	Pass	
Piperonyl Butoxide	100.00	ND	8000.00	Pass	
Prallethrin	100.00	ND	100.00	Pass	
Propiconazole	100.00	ND	100.00	Pass	
Pyrethrins	100.00	ND	1000.00	Pass	
Pyridaben	100.00	ND	100.00	Pass	
Spinetoram	100.00	ND	100.00	Pass	
Spinosad	100.00	ND	3000.00	Pass	
spinoxamine	100.00	ND	100.00	Pass	
Spiromesifen	100.00	ND	100.00	Pass	
Spirotetramat	100.00	ND	100.00	Pass	
Tebuconazole	100.00	ND	100.00	Pass	
Thiamethoxam	100.00	ND	100.00	Pass	
Trifloxystrobin	100.00	ND	100.00	Pass	

Mycotoxins

Date of Analysis:

Method: LC/MS/MS

Analyte	LOQ (ppb)	Results (ppb)	Limit (ppb)	Status
Aflatoxin G1	5.00	ND	20.00	Pass
Aflatoxin G2	5.00	ND	20.00	Pass
Aflatoxin B1	5.00	ND	20.00	Pass
Aflatoxin B2	5.00	ND	20.00	Pass
Total Aflatoxins	20.00	ND	20.00	Pass
Ochratoxin A	5.00	ND	20.00	Pass

Microbial Analysis

Date of Analysis:

Method: DBRC Agar & Petrifilm

Analyte	LOQ	Results	Limit	Status
Aspergillus fumigatus	10.00	ND	10.00	Pass
Aspergillus flavus	10.00	ND	10.00	Pass
Aspergillus niger	10.00	ND	10.00	Pass
Aspergillus terreus	10.00	ND	10.00	Pass
Total Coliform	10.00	ND	1000.00	Pass
BTGN	10.00	ND	1000.00	Pass
STEC	1.00	ND	1.00	Pass
Salmonella	1.00	ND	1.00	Pass
Listeria*	1.00	ND	1.00	Pass
Total Yeast Mold	10.00	ND	10000.00	Pass
Total Aerobic Count	10.00	10.00	100000.00	Pass

Date of Analysis: Method:

Analyte	Results
Foreign Materials	Negative

Heavy Metals

Date of Analysis: Method: ICP/MS

Analyte	LOQ (ppb)	Results (ppb)	Limit (ppb)	Status
Cadmium	10.00	ND	500.00	Pass
Lead	10.00	ND	500.00	Pass
Arsenic	10.00	ND	500.00	Pass
Mercury	10.00	ND	500.00	Pass
Chromium	10.00	1046.22	1100000.00	Pass



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