

### SAMPLE NAME: Twin Arch Tincture

Infused, Non-Inhalable

### CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

### DISTRIBUTOR / TESTED FOR

Business Name: Bardo

License Number:

Address:

### SAMPLE DETAIL

Batch Number: TAT-001-1200

Sample ID: 210105S003

Date Collected: 01/05/2021

Date Received: 01/05/2021

Batch Size:

Sample Size: 3.0 units

Unit Mass: 30 milliliters per Unit

Serving Size:



Scan QR code to verify authenticity of results.

### CANNABINOID ANALYSIS - SUMMARY

Total THC: **26.520 mg/unit**

Total CBD: **1326.900 mg/unit**

Sum of Cannabinoids: **1440.030 mg/unit**

Total Cannabinoids: **1440.030 mg/unit**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:  
 Total THC =  $\Delta 9\text{THC} + (\text{THCa} \times 0.877)$   
 Total CBD =  $\text{CBD} + (\text{CBDa} \times 0.877)$   
 Sum of Cannabinoids =  $\Delta 9\text{THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$   
 Total Cannabinoids =  $(\Delta 9\text{THC} + 0.877 \times \text{THCa}) + (\text{CBD} + 0.877 \times \text{CBDa}) + (\text{CBG} + 0.877 \times \text{CBGa}) + (\text{THCV} + 0.877 \times \text{THCVa}) + (\text{CBC} + 0.877 \times \text{CBCa}) + (\text{CBDV} + 0.877 \times \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

Moisture: NT

Density: **0.9488 g/mL**

Viscosity: NT

### SAFETY ANALYSIS - SUMMARY

$\Delta 9\text{THC}$  per Unit: **PASS**

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

Pesticides: NT

Mycotoxins: NT

Residual Solvents: NT

Heavy Metals: NT

Microbial Impurities (PCR): **PASS**

Microbial Impurities (Plating): NT

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

*Marin Guerrero*  
 LQC Analyst by: Marin Guerrero  
 Date: 01/07/2021

*Josh Wurzer*  
 Approved by: Josh Wurzer, President  
 Date: 01/07/2021

### Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

**TOTAL THC: 26.520 mg/unit**

Total THC ( $\Delta 9$ THC+0.877\*THCa)

**TOTAL CBD: 1326.900 mg/unit**

Total CBD (CBD+0.877\*CBDa)

**TOTAL CANNABINOIDS: 1440.030 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta 8$ THC + CBL + CBN

**TOTAL CBG: 14.940 mg/unit**

Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV: ND**

Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC: 54.690 mg/unit**

Total CBC (CBC+0.877\*CBCa)

**TOTAL CBDV: 7.320 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 01/06/2021

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	$\pm 2.1186$	44.230	4.6617
CBC	0.003 / 0.010	$\pm 0.0755$	1.823	0.1921
$\Delta 9$ THC	0.002 / 0.014	$\pm 0.0623$	0.884	0.0932
CBG	0.002 / 0.006	$\pm 0.0310$	0.498	0.0525
CBDV	0.002 / 0.012	$\pm 0.0128$	0.244	0.0257
CBN	0.001 / 0.007	$\pm 0.0085$	0.229	0.0241
CBL	0.003 / 0.010	$\pm 0.0044$	0.093	0.0098
$\Delta 8$ THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDa	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			48.001 mg/mL	5.0591%

### Unit Mass: 30 milliliters per Unit

$\Delta 9$ THC per Unit	1100 per-package limit	26.520 mg/unit	PASS
Total THC per Unit		26.520 mg/unit	
CBD per Unit		1326.900 mg/unit	
Total CBD per Unit		1326.900 mg/unit	
Sum of Cannabinoids per Unit		1440.030 mg/unit	
Total Cannabinoids per Unit		1440.030 mg/unit	

### MOISTURE TEST RESULT

Not Tested

### DENSITY TEST RESULT

0.9488 g/mL

Tested 01/06/2021

**Method:** QSP 7870 - Sample Preparation

### VISCOSITY TEST RESULT

Not Tested





## Microbial Impurities Analysis

### PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

**Method:** QSP 1221 - Analysis of Microbial Impurities

### MICROBIAL IMPURITIES TEST RESULTS (PCR) - 01/07/2021 ✓ PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Detect	ND	PASS
<i>Salmonella</i> spp.	Detect	ND	PASS
<i>Aspergillus fumigatus</i>		NT	
<i>Aspergillus flavus</i>		NT	
<i>Aspergillus niger</i>		NT	
<i>Aspergillus terreus</i>		NT	

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbial impurities.

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

### MICROBIAL IMPURITIES TEST RESULTS (PLATING)

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT

