

CERTIFICATE OF ANALYSIS

PRODUCED: JAN 05, 2023

SAMPLE: SOUR OG SUPERDOOBER (INFUSED FLOWER) // CLIENT: ACHIEVE // BATCH: PASS



BATCH NO.: SOG4634-S870
 CULTIVAR: SOUR OG
 MATRIX: FLOWER
 CATEGORY: INHALABLE
 SAMPLE ID: TLT-221229-024
 COLLECTED ON: DEC 29, 2022
 RECEIVED ON: DEC 29, 2022
 BATCH/SAMPLE SIZE: 5000 G / 12 G
 RECEIVED BY: RAUL MANUEL MORALES JR

CANNABINOID OVERVIEW

TOTAL THC:	32.175 %
TOTAL CBD:	< LOQ %
TOTAL CANNABINOIDS:	36.356 %

BATCH RESULT: PASS

POTENCY	TESTED	PESTICIDES	PASS
METALS	PASS	SOLVENTS	TESTED
MICROBIAL	PASS	TERPENES	TESTED
MYCOTOXINS	TESTED		

SOP 50: CANNABINOID PROFILE BY HPLC-MS // JAN 03, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBD		ND	ND	0.279/0.838		Δ ⁹ -THC	14.593 %	145.93 mg/g		2.974/8.922	
CBDA	< LOQ	< LOQ	< LOQ	0.279/0.838		THCA	20.048 %	200.48 mg/g		2.974/8.922	
CBG	0.346 %	3.46 mg/g	3.46 mg/g	0.279/0.838		TOTAL THC**	32.175 %	321.75 mg/g			
CBN	0.153 %	1.53 mg/g	1.53 mg/g	0.279/0.838		TOTAL CBD**	< LOQ	< LOQ			
Δ ⁸ -THC		ND	ND								

** TOTAL CBD = (CBDA X 0.877) + CBD

** TOTAL THC = (THCA X 0.877) + THC

SOP 50: EXPANDED CANNABINOID PROFILE BY HPLC-MS // JAN 03, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ	PASS/FAIL
CBC		0.132 %	1.32 mg/g			CBGA		0.848 %	8.48 mg/g		
CBCA		0.236 %	2.36 mg/g								

** TOTAL CBD = (CBDA X 0.877) + CBD

** TOTAL THC = (THCA X 0.877) + THC

: TERPENES BY GC-MS // JAN 03, 2023

ANALYTE	AMT	AMT	LOD/LOQ	PASS/FAIL	ANALYTE	AMT	AMT	LOD/LOQ	PASS/FAIL
TOTAL TERPENES	0.159 %	1.59 mg/g			CEDROL	ND	ND		
β-CARYOPHYLLENE	0.033 %	0.33 mg/g			CITRONELLOL	ND	ND		
LINALOOL	0.027 %	0.27 mg/g			EUCALYPTOL	ND	ND		
SABINENE HYDRATE	0.027 %	0.27 mg/g			FARNESOL	ND	ND		
(1R)-ENDO-(+)-FENCHYL ALCOHOL	0.017 %	0.17 mg/g			γ-TERPINENE	ND	ND		
(-)-GUAJOL	0.015 %	0.15 mg/g			GERANIOL	ND	ND		
α-TERPINEOL	0.015 %	0.15 mg/g			GERANYL ACETATE	ND	ND		
D-LIMONENE	0.013 %	0.13 mg/g			ISOBORNEOL	ND	ND		
α-HUMULENE	0.012 %	0.12 mg/g			M-CYMENE	ND	ND		
(+)-BORNEOL	ND	ND			MENTHOL	ND	ND		
(-)-α-BISABOLOL	ND	ND			NEROL	ND	ND		
(-)-β-PINENE	ND	ND			NEROLIDOL	ND	ND		
(-)-BORNEOL	ND	ND			O-CYMENE	ND	ND		
(-)-CARYOPHYLLENE OXIDE	ND	ND			OCIMENE	ND	ND		

REGULATORY COMPLIANCE TESTING

(-)-ISOPULEGOL	ND	ND
(1S)-(+)-3-CARENE	ND	ND
α-CEDRENE	ND	ND
α-PHELLANDRENE	ND	ND
α-PINENE	ND	ND
α-TERPINENE	ND	ND
β-MYRCENE	ND	ND
CAMPHENE	ND	ND
CAMPHOR	ND	ND
CARVACROL	ND	ND

P-ISOPROPYLTOLUENE (P-CYMENE)	ND	ND
PHYTANE	ND	ND
SABINENE	ND	ND
SQUALENE	ND	ND
TERPINEN-4-OL	ND	ND
TERPINOLENE	ND	ND
THYMOL	ND	ND
TRANS-β-FARNESENE	ND	ND
VALENCENE	ND	ND



RESULTS CERTIFIED BY: WILLIAM ENGLISH
 LAB DIRECTOR, TITAN LABORATORIES
 JAN 05, 2023

W.A. English



SOP 60: PESTICIDES BY LC-MS/MS // JAN 03, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND		PASS	HEXYTHIAZOX	1 µg/g	ND		PASS
ACEPHATE	0.4 µg/g	ND		PASS	IMAZALIL	0.2 µg/g	ND		PASS
ACEQUINOCYL	2 µg/g	ND		PASS	IMIDACLOPRID	0.4 µg/g	ND		PASS
ACETAMIPRID	0.2 µg/g	ND		PASS	KRESOXIM-METHYL	0.4 µg/g	ND		PASS
ALDICARB	0.4 µg/g	ND		PASS	MALATHION	0.2 µg/g	ND		PASS
AZOXYSTROBIN	0.2 µg/g	ND		PASS	METALAXYL	0.2 µg/g	ND		PASS
BIFENAZATE	0.2 µg/g	ND		PASS	METHIOCARB	0.2 µg/g	ND		PASS
BIFENTHRIN	0.2 µg/g	ND		PASS	METHOMYL	0.4 µg/g	ND		PASS
BOSCALID	0.4 µg/g	ND		PASS	MYCLOBUTANIL	0.2 µg/g	ND		PASS
CARBARYL	0.2 µg/g	ND		PASS	NALED	0.5 µg/g	ND		PASS
CARBOFURAN	0.2 µg/g	ND		PASS	OXAMYL	1 µg/g	ND		PASS
CHLORANTRANILIPROLE	0.2 µg/g	ND		PASS	PACLOBUTRAZOL	0.4 µg/g	ND		PASS
CHLORFENAPYR	1 µg/g	ND		PASS	PERMETHRIN	0.2 µg/g	ND		PASS
CHLORPYRIFOS	0.2 µg/g	ND		PASS	PHOSMET	0.2 µg/g	ND		PASS
CLOFENTEZINE	0.2 µg/g	ND		PASS	PIPERONYLBUTOXIDE	2 µg/g	ND		PASS
CYFLUTHRIN	1 µg/g	ND		PASS	PRALLETHRIN	0.2 µg/g	ND		PASS
CYPERMETHRIN	1 µg/g	ND		PASS	PROPICONAZOLE	0.4 µg/g	ND		PASS
DAMINOZIDE	1 µg/g	ND		PASS	PROPOXUR	0.2 µg/g	ND		PASS
DIAZINON	0.2 µg/g	ND		PASS	PYRETHRINS	1 µg/g	ND		PASS
DICHLORVOS	0.1 µg/g	ND		PASS	PYRIDABEN	0.2 µg/g	ND		PASS
DIMETHOATE	0.2 µg/g	ND		PASS	SPINOSAD	0.2 µg/g	ND		PASS
ETHOPROPHOS	0.2 µg/g	ND		PASS	SPIROMESIFEN	0.2 µg/g	ND		PASS
ETOFENPROX	0.4 µg/g	ND		PASS	SPIROTETRAMAT	0.2 µg/g	ND		PASS
ETOXAZOLE	0.2 µg/g	ND		PASS	SPIROXAMINE	0.4 µg/g	ND		PASS
FENOXYCARB	0.2 µg/g	ND		PASS	TEBUCONAZOLE	0.4 µg/g	ND		PASS
FENPYROXIMATE	0.4 µg/g	ND		PASS	THIACLOPRID	0.2 µg/g	ND		PASS
FIPRONIL	0.4 µg/g	ND		PASS	THIAMETHOXAM	0.2 µg/g	ND		PASS
FLONICAMID	1 µg/g	ND		PASS	TRIFLOXYSTROBIN	0.2 µg/g	ND		PASS
FLUDIOXONIL	0.4 µg/g	ND		PASS					

TITAN LABORATORIES



SOP 160: ASPERGILLUS BY GENE-UP QPCR // JAN 02, 2023

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS FLAVUS	Any amt in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amt in 1 gram	ND	PASS

SOP 130: E. COLI BY 3M PETRIFILM // JAN 03, 2023

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ESCHERICHIA COLI	100 CFU/g	ND	PASS

SOP 120: SALMONELLA BY GENE-UP QPCR // JAN 03, 2023

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
SALMONELLA SPP.	Any amt in 1 gram	ND	PASS

SOP 60: MYCOTOXINS BY LC-MS/MS // JAN 02, 2023

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ	PASS/FAIL
AFLATOXINS	20 µg/kg	ND		
AFLATOXIN B1		ND		
AFLATOXIN B2		ND		

SOP 70: HEAVY METALS BY ICP-MS // JAN 03, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ	PASS/FAIL
ARSENIC	0.4 µg/g	0.127		PASS
CADMIUM	0.4 µg/g	ND		PASS

SOP 80: RESIDUAL SOLVENTS BY GC-MS // JAN 03, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ	PASS/FAIL
BUTANE		ND		
HEXANE		ND		
ACETONE	1000 µg/g	ND		
BENZENE	2 µg/g	ND		
BUTANES	5000 µg/g	ND		
ETHANOL	5000 µg/g	ND		
HEPTANE	5000 µg/g	ND		
HEXANES	290 µg/g	ND		
PENTANE		ND		
PROPANE	5000 µg/g	ND		
TOLUENE	890 µg/g	ND		
METHANOL	3000 µg/g	ND		
PENTANES	5000 µg/g	ND		
O-XYLENE		ND		
ISOBUTANE		ND		
CHLOROFORM	60 µg/g	ND		

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS NIGER	Any amt in 1 gram	ND	PASS
ASPERGILLUS TERREUS	Any amt in 1 gram	ND	PASS

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ	PASS/FAIL
AFLATOXIN G1		ND		
AFLATOXIN G2		ND		
OCHRATOXIN A	20 µg/kg	ND		

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ	PASS/FAIL
LEAD	1 µg/g	ND		PASS
MERCURY	1.2 µg/g	0.009		PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ	PASS/FAIL
ISOPENTANE		ND		
NEOPENTANE		ND		
ETHYL ETHER	5000 µg/g	ND		
ACETONITRILE	410 µg/g	ND		
ETHYLBENZENE		ND		
ETHYL ACETATE	5000 µg/g	ND		
TOTAL XYLENES	2170 µg/g	ND		
2-METHYLPENTANE		ND		
3-METHYLPENTANE		ND		
DICHLOROMETHANE	600 µg/g	ND		
P- AND M-XYLENE		ND		
ISOPROPYL ACETATE	5000 µg/g	ND		
ISOPROPYL ALCOHOL	5000 µg/g	ND		
2,2-DIMETHYLBUTANE		ND		
2,3-DIMETHYLBUTANE		ND		

