	Certificate of Analysis				
AllianceNutra	Product:	T010 Hemp Direct Tincture 2,500 mg CBD Full Spectrum			
	Batch Number:	11973	Best-By Date:	09/04/2022	

Characteristic	Instrument	Specification	Result	Pass/ Fail/ N/A
Identity				
Color & Appearance	Visual	Golden tinted oily liquid	Complies	Pass
Odor	Organoleptic	Characteristic of standard	Complies	Pass
Taste	Organoleptic	Neutral to bitter	Complies	Pass
Composition				
Density	Density Meter	0.908 - 0.955 g/mL	Complies	Pass
Fill Volume	In-Process Verification	30.0 - 31.5 mL/bottle	Complies	Pass
Strength - Cannabinoids				
Total CBD ¹	HPLC	2,500.0 - 3,400.0 mg/bottle	2,989.0 mg/bottle ⁴	Pass
Total THC ¹	HPLC	≤ 0.30%; Detected	0.07%4	Pass
CBDa	HPLC	Report Result	Not Detected⁴	N/A
CBG	HPLC	Report Result	Not Detected⁴	N/A
CBD	HPLC	Report Result	10.88%4	N/A
CBN	HPLC	Report Result	Not Detected⁴	N/A
THC	HPLC	Report Result	0.07%4	N/A
CBC	HPLC	Report Result	Not Detected⁴	N/A
THCa	HPLC	Report Result	Not Detected⁴	N/A
Contaminants - Residual S	olvents			
Acetone	GC-FID	< 1,000 ppm	Complies⁴	Pass
Butanes	GC-FID	< 1,000 ppm	Complies ⁴	Pass
Ethanol	GC-FID	< 1,000 ppm	Complies ⁴	Pass
Heptanes	GC-FID	< 1,000 ppm	Complies ⁴	Pass
Isopropyl Alcohol	GC-FID	< 1,000 ppm	Complies ⁴	Pass
Propane	GC-FID	< 1,000 ppm	Complies⁴	Pass
Benzene	GC-FID	< 2 ppm	Complies ⁴	Pass
Toluene	GC-FID	< 180 ppm	Complies ⁴	Pass
Pentane	GC-FID	< 1,000 ppm	Complies ⁴	Pass
Hexane	GC-FID	< 60 ppm	Complies ⁴	Pass
Total Xylenes (m,p,o-xylenes)	GC-FID	< 430 ppm	Complies ⁴	Pass
Methanol	GC-FID	< 600 ppm	Complies ⁴	Pass
Ethyl Acetate	GC-FID	< 1,000 ppm	Complies ⁴	Pass

Certificate of Analysis Product: T010 Hemp Direct Tincture 2,500 mg CBD Full Spectrum Batch Number: 11973 Best-By Date: 09/04/2022

Characteristic	Instrument	Specification	Result	Pass/ Fail/ N/A
Contaminants - Pesticides				
Abamectin (avermectins: B1a & B1b)	GC-MS / LC-MS	< 0.07 ppm	Complies ⁴	Pass
Azoxystrobin	GC-MS / LC-MS	< 0.02 ppm	Complies ⁴	Pass
Bifenazate	GC-MS / LC-MS	< 0.02 ppm	Complies ⁴	Pass
Etoxazole	GC-MS / LC-MS	< 0.01 ppm	Complies ⁴	Pass
Imazalil	GC-MS / LC-MS	< 0.04 ppm	Complies ⁴	Pass
Imidacloprid	GC-MS / LC-MS	< 0.02 ppm	Complies ⁴	Pass
Malathion	GC-MS / LC-MS	< 0.05 ppm	Complies ⁴	Pass
Myclobutanil	GC-MS / LC-MS	< 0.04 ppm	Complies ⁴	Pass
Permethrin (mix of isomers)	GC-MS / LC-MS	< 0.04 ppm	Complies ⁴	Pass
Spinosad (mixture of A and D)	GC-MS / LC-MS	< 0.06 ppm	Complies ⁴	Pass
Spiromesifen	GC-MS / LC-MS	< 0.03 ppm	Complies ⁴	Pass
Spirotetramat	GC-MS / LC-MS	< 0.02 ppm	Complies ⁴	Pass
Tebuconazole	GC-MS / LC-MS	< 0.01 ppm	Complies ⁴	Pass
Contaminants - Heavy Met	als			
Arsenic	ICP-MS USP <730>	< 1.36 μg/mL	Complies ⁴	Pass
Cadmium	ICP-MS USP <730>	< 0.45 μg/mL	Complies ⁴	Pass
Lead	ICP-MS USP <730>	< 0.50 μg/mL	Complies ⁴	Pass
Mercury	ICP-MS USP <730>	< 0.30 μg/mL	Complies ⁴	Pass
Microbial Purity				
Total Plate Count	USP <2021>	< 10,000 CFU/g	Complies ⁴	Pass
Yeast & Mold	USP <2021>	≤ 1,000 CFU/g	Complies ⁴	Pass
E. coli	FDA BAM	< 3 MPN/g	Complies ⁴	Pass
Shiga-Toxin Producing Escherichia coli (STEC)	qPCR	< 1 CFU/g	S.L. ²	N/A
Salmonella spp.	USP <2022>	Absent/10 g	Complies ⁴	Pass

¹ All cannabinoids in their acid forms (ending in "a") are convertible to their non-acid forms via a decarboxylation process (heating). The THC and CBD maximum values reported are the maximum theoretical amounts of THC and CBD the tested product would have if it were fully decarboxylated.

⁴ Result was acquired by 3rd party laboratory.

Reviewed By:

Approved By:

Date: 04.08-20

Date: 04.08.20

² S.L. means "Skip Lot". Parameters are being monitored through product qualification testing and are currently in skip lot protocol.

³ Cannabinoid detected below Limit of Quantitation (LOQ).