

Product:	CBD Muscle & Joint Stick	Harvest Source:	Vermont Farmed
Description:	Hemp derived CBD rich topical sports stick	Cultivar:	T2
Unit Size:	1 oz	Batch ID:	86590200018
Product Code:	W1000ST-1	Production ID:	PS200227119
		DOM:	8-Jun-20

Quality	Method	Specification	Result	Result
Total CBD:	C5210-HPLCUV (Internal)	> 1000 MG	1005	PASS
Total THC:	C5210-HPLCUV (Internal)	< 0.3 %	0.21	PASS
Appearance:	ASTM E1627 - 11	Beige, off white solid		PASS
Odor:	ASTM E1627 - 11	Characteristic		PASS
Total Terpenes:	C5933-GCMS (Internal)	Detectable (PPM)	203	PASS
Minor Cannabinoids:	C6198 LCMSMS (Internal)	Detectable (MG)	24	PASS
Safety	Method	Specification	Result	Result
Water Activity	D8196-18	n/a		Not Tested
Solvents:	C5923-GCMS (Internal)	USP 467		PASS
Pesticides:	C5838 LCMSMS/AOAC 2007.01	OAR333-007-0400/EPA		PASS
Mycotoxins:	C5838 LCMSMS/AOAC 2007.01	MDH Exhibit 6		PASS
Heavy Metals:	ICPMS (External Partner)	MDH Exhibit 4		PASS

Product of Vermont USA



Test Method: C5210 HPLC-UV (Internal)

Test Method: C5210 HPLC-UV (Internal)

Terpene Profile	Parts Per Million	Parts Per Million	Cannabinoid Potency	MG Per Unit	MG Per Serving	
a-Pinene	<2	Isoborneol	<2	CBD	1005	441.53
Camphene	<2	Menthol	<2	CBDA	<14	<6.15
Sabinene-	<2	endo-Borneol	<2	d9-THC	59	25.83
b-Pinene	<2	a-Terpeneol	9	THCA-A	<14	<6.15
b-Myrcene	3	g Terpeneol	<2	d8-THC	<1.4	<0.62
a-Phellandrene	<2	Nerol	2	CBG	14.4	6.34
Carene	<2	Pulegone	<2	CBGA	<1.4	<0.62
a-Terpinene	<2	Geraniol	<2	CBN	<1.4	<0.62
D-Limonene	<2	Geranyl acetate	<2	CBNA	<1.4	<0.62
o-Cymene	<2	a-Cedrene	<2	CBC	7.7	3.39
Eucalyptol	<2	(E)-b-Famesene	<2	CBCA	<1.4	<0.62
b-Ocimene	<2	Caryophyllene	126	CBDV	1.9	0.84
gTerpinene	<2	a-Humulene	32	CBDVA	<1.4	<0.62
Terpinolene	<2	trans-Neradiol	3	THCV	<1.4	<0.62
Sabinene Hydrate	<2	cis-Neradiol	3	THCVA	<1.4	<0.62
Fenchone	<2	Valencene	<2	CBL	<1.4	<0.62
Linalool	3	Guaiol	<2			
Fenchol	<2	Caryophyllene Oxide	6			
Isopulegol	<2	Cedrol	<2			
Camphor	<2	a-Bisabolol	15			

Recommended Storage: 20-25 ° C (68-77° F), Refrigerate for long term storage (> 3 months); avoid exposure to prolonged heat and light.

Retest Date: 1-Jun-22

Product Information: Sports sticks with hemp derived CBD is intended for topical use only; apply as needed and do not ingest.

Approved By:



Representative: Keith Griswold, MS

Title: Chief Scientific Officer

Date: 14-Jul-20



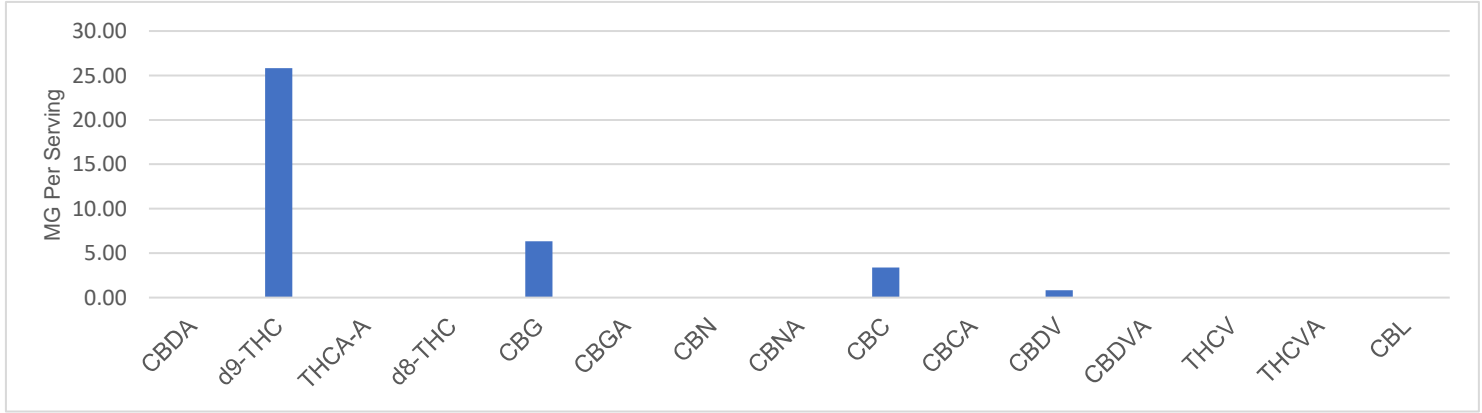
Data reported in this document pertains only to this batch and as sampled according to QMT.PLN.01.03. All rights are reserved to the producer and distributor of this product. Unauthorized reproduction of this data is prohibited. All testing is performed with internally developed test methods that have been verified or validated in accordance to AOAC and ICH guidelines. Test method performance is monitored through control charting.

Batch ID: 86590200018

Parameter: Cannabinoid Potency

DOM: 8-Jun-20

Test Method: C6198 LCMSMS (Internal); LOQ = 0.005%

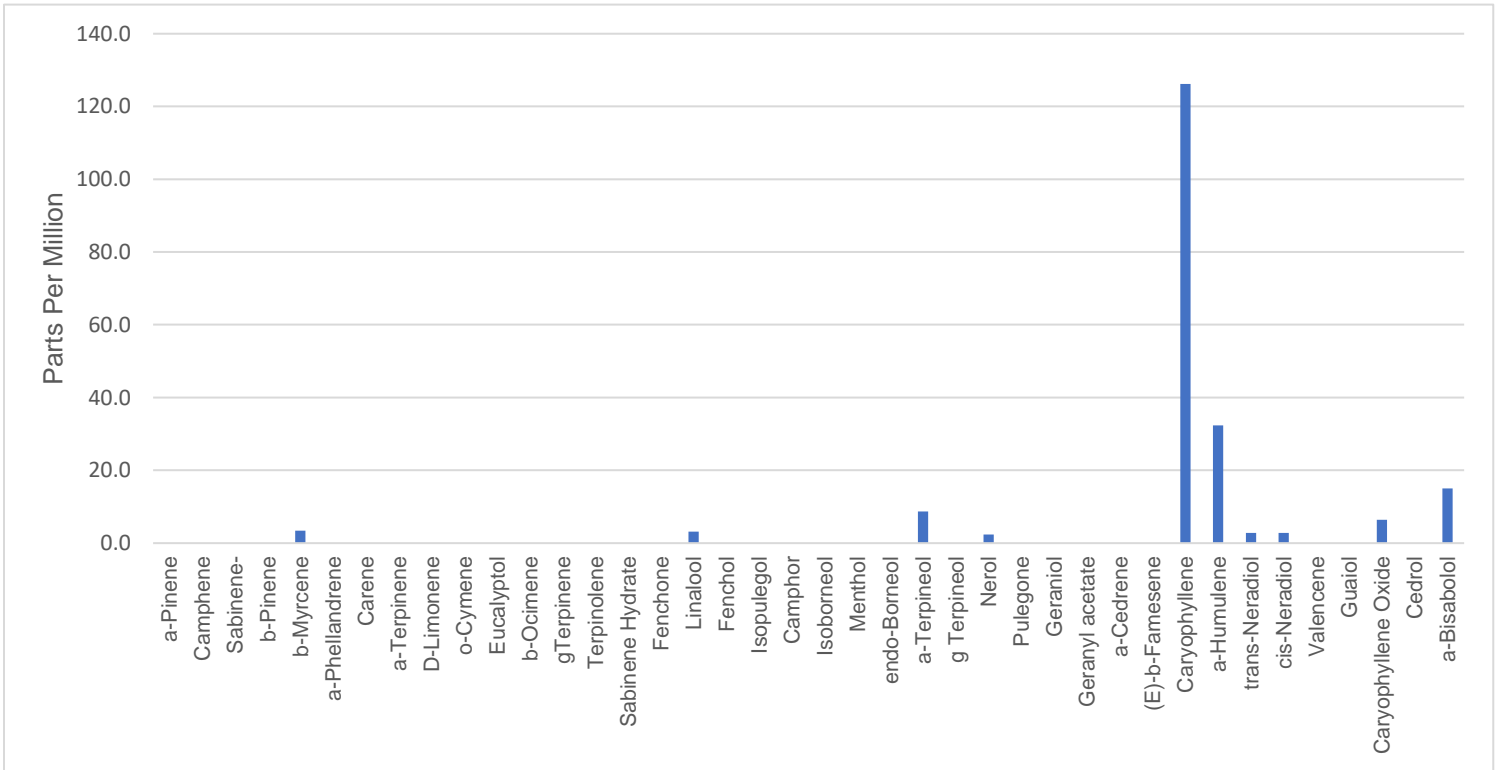


Batch ID: 86590200018

Parameter: Terpene Profile

DOM: 8-Jun-20

Test Method: C5933 GCMS (Internal); Static Headspace; LOQ = 2 ppm



*Terpenes represented of hemp derived before any flavouring is added.

Approved By:



Representative: Keith Griswold, MS

Title: Chief Scientific Officer

Date: 14-Jul-20



Batch ID: 86590200018

Parameter: Residual Solvents



Certificate of Analysis

Product Specifications

21 O'Bryan Drive
Brattleboro, VT 05301
Ph: (802) 490 2865
analytics@northeastprocessing.com

DOM: 8-Jun-20

Test Method: C5923 GCMS (Internal); Static Headspace

Analyte	Units	Reporting Limit	Action Limit	Result	Status
Methanol	%w/w	0.05	0.30	< 0.05	PASS
Pentane	%w/w	0.003	0.50	< 0.003	PASS
Ethanol	%w/w	0.05	0.50	<0.05	PASS
Acetone	%w/w	0.05	0.50	< 0.05	PASS
Isopropanol	%w/w	0.05	0.50	<0.05	PASS
Acetonitrile	%w/w	0.003	0.04	<0.003	PASS
n-Hexane	%w/w	0.003	0.03	<0.003	PASS
Tetrahydrofuran	%w/w	0.003	0.07	<0.003	PASS
Chloroform	%w/w	0.003	0.01	<0.003	PASS
n-Heptane	%w/w	0.02	0.50	<0.02	PASS
Toluene	%w/w	0.003	0.09	<0.003	PASS
m & p Xylene	%w/w	0.003	0.22	<0.003	PASS

**Action limit based on USP 467 requirements for residual solvents Class I, II and III.*

Batch ID: 86590200018 **Parameter:** Mycotoxins
DOM: 8-Jun-20 **Test Method:** C5838 LCMSMS/AOAC 2007.01

Analytes	Units	Reporting Limit	Action Limit	Results	Status
Mycotoxins	ppb	n/a	20	< 20	PASS

Batch ID: 86590200018 **Parameter:** Pesticides
DOM: 8-Jun-20 **Test Method:** C5838 LCMSMS/AOAC 2007.01

Analyte	Units	Reporting Limit	Action Limit	Results	Status
Bifenazate	ppm	0.10	0.20	<0.10	PASS
Etoxale	ppm	0.05	0.20	< 0.05	PASS
Imazalil	ppm	0.05	0.20	<0.05	PASS
Imidacloprid	ppm	0.05	0.40	<0.05	PASS
Myclobutanil	ppm	0.05	0.20	<0.05	PASS
Spiromesifen	ppm	0.05	0.20	<0.05	PASS
Trifloxystrobin	ppm	0.05	0.20	<0.05	PASS

Reporting limit for all mycotoxins screened is 2 parts per billion (ppb); Action level, maximum level allowed by EPA/Orgeon Regulations

Batch ID: 86590200018 **Parameter:** Heavy Metals
DOM: 8-Jun-20 **Test Method:** PMS (External Partner)

Analyte	Units	Reporting Limit	Action Limit	Results*	Status
As	ppb	0.1	200	18	PASS
Hg	ppb	0.1	100	7.2	PASS
Cd	ppb	0.1	200	87.0	PASS
Pb	ppb	0.1	500	34	PASS

**Derived from whole flower prior to extraction and formulation*

Approved By:

Representative: Keith Griswold, MS

Title: Chief Scientific Officer

Date: 14-Jul-20

