

Hemp Proficiency Testing

Summary Statistics

HM22NOV-2 (hemp)



Sample: HM22NOV-2 (hemp)

Summary Statistics

Issue Date: January 20, 2023

By Analyte

Analyte	Code	Trueness (Lab Value)				Horwitz %RSD	Precision (Lab RSDr)		
		Rob Mean	n	Rob StDev	%RSD		Rob Mean	min	max
Δ9-THC (%AR)	001	0.1998	40	0.0262	13.1	5.08	3.29	0.54	97
Δ9-THCA (%AR)	002	0.0266	29	0.0084	31.7	6.88	7.37	0	25.1
CBD (%AR)	003	4.7273	31	0.3557	7.53	3.16	2	0.05	16.3
CBDA (%AR)	004	3.0067	29	0.3643	12.1	3.38	2.22	0.24	17.2
CBN (%AR)	005	0.0436	21	0.0078	17.9	6.38	6.02	0	26.3
Total Δ9-THC (%AR)	006	0.2219	47	0.0321	14.5	5	3.76	0.58	11.9
Total CBD (%AR)	007	7.2641	33	0.6847	9.43	2.96	2.16	0.07	16.7
CBDV (%AR)	008	0.0453	6	0.0111	24.5	6.35	8.02	0	128
CBG (%AR)	010	0.3231	15	0.045	13.9	4.73	2.59	0.75	5.42
CBGA (%AR)	011	0.3855	13	0.0295	7.65	4.6	2.42	0.03	4.42
CBC (%AR)	014	0.2333	15	0.0184	7.89	4.96	1.6	0.69	3.5
Cd (ug/g AR)	101	0.1485	7	0.0163	11	21.15	2.45	1.25	8.61
Pb (ug/g AR)	104	0.3066	9	0.0594	19.4	18.97	11.94	4	17.8

Sample: HM22NOV-2 (hemp)		Summary Statistics					Issue Date: January 20, 2023		
Moisture (%AR)	500	6.8372	22	1.6589	24.3	2.99	3.41	0	18.4
Δ9-THC (%DW)	501	0.212	13	0.0273	12.9	5.04	3	0.74	6.72
Δ9-THCA (%DW)	502	0.0288	10	0.0165	57.1	6.79	5.05	1.02	12.2
CBD (%DW)	503	5.0216	12	0.2897	5.77	3.13	2.12	0.26	4.86
CBDA (%DW)	504	3.194	11	0.3687	11.5	3.35	2.7	0.44	12.1
CBN (%DW)	505	0.0441	10	0.0062	14.1	6.37	3.27	1.16	26.6
Total Δ9-THC (%DW)	506	0.2344	18	0.0287	12.3	4.96	2.78	0.63	10.8
Total CBD (%DW)	507	7.9119	14	0.787	9.95	2.93	1.57	0.38	6.59
CBG (%DW)	510	0.3387	6	0.0347	10.2	4.69	3.69	0.76	6.98
CBC (%DW)	514	0.2503	7	0.0192	7.66	4.91	2.16	0.84	5.93

By Method Group

Analyte	Code	Trueness (Lab Value)				Horwitz %RSD	Precision (Lab RSDr)		
		Rob Mean	n	Rob StDev	%RSD		Rob Mean	min	max
CBN (%AR)	LC	0.0424	16	0.0088	20.8	6.41	5.19	0	26.3
Total Δ9-THC (%AR)	GC	0.2367	11	0.0385	16.3	4.95	4.56	0.71	11.9
Total Δ9-THC (%AR)	LC	0.2151	32	0.0281	13	5.02	3.23	0.58	11.9
Total CBD (%AR)	GC	7.202	6	1.3864	19.2	2.97	4.21	1.32	9.86
Total CBD (%AR)	LC	7.2615	23	0.5268	7.25	2.96	1.74	0.07	10.3
CBN (%DW)	LC	0.044	9	0.0075	17	6.37	3.18	1.16	26.6
Total Δ9-THC (%DW)	LC	0.2303	14	0.0308	13.4	4.97	2.33	0.63	6.53
Total CBD (%DW)	LC	7.8202	11	0.6427	8.22	2.93	1.39	0.38	3.9

By Method

Analyte	Code		Trueness (Lab Value)				Horwitz %RSD	Precision (Lab RSDr)		
			Rob Mean	n	Rob StDev	%RSD		Rob Mean	min	max
Δ9-THC (%AR)	001.02	AOAC 2018.11, UV	0.1924	7	0.0259	13.5	5.11	2.18	0.58	9.27
Δ9-THC (%AR)	001.10	Other LC-UV	0.1968	22	0.0245	12.4	5.09	3.15	1.02	97
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0292	15	0.0099	34.1	6.78	8.18	0	24.7
CBD (%AR)	003.10	Other LC-UV	4.7956	19	0.3397	7.08	3.15	1.89	0.21	6.55
CBDA (%AR)	004.10	Other LC-UV	3.0594	18	0.3085	10.1	3.37	1.92	0.44	7.71
CBN (%AR)	005.10	Other LC-UV	0.0407	12	0.0069	17	6.45	4.45	0	26.3
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.2158	7	0.0353	16.4	5.02	4.63	0.58	11.9
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.2062	17	0.0182	8.84	5.06	2.41	1.02	11.4
Total Δ9-THC (%AR)	006.40	GC-FID	0.2367	11	0.0385	16.3	4.95	4.56	0.71	11.9
Total CBD (%AR)	007.02	AOAC 2018.11, UV	6.8511	6	0.5482	8	2.99	1.67	0.38	10.3
Total CBD (%AR)	007.10	Other LC-UV	7.365	14	0.5553	7.54	2.96	1.7	0.29	7.02
Total CBD (%AR)	007.40	GC-FID	7.202	6	1.3864	19.2	2.97	4.21	1.32	9.86
CBDV (%AR)	008.99	Other	0.0453	6	0.0111	24.5	6.35	8.02	0	128
CBG (%AR)	010.99	Other	0.3255	14	0.0469	14.4	4.72	2.64	0.75	5.42
CBGA (%AR)	011.99	Other	0.3864	12	0.0319	8.24	4.6	2.28	0.03	4.42
CBC (%AR)	014.99	Other	0.2355	13	0.0205	8.69	4.96	1.69	0.69	3.5
Cd (ug/g AR)	101.04	ICP-MS	0.1485	7	0.0163	11	21.15	2.45	1.25	8.61
Pb (ug/g AR)	104.04	ICP-MS	0.3066	9	0.0594	19.4	18.97	11.94	4	17.8
Moisture (%AR)	500.70	Commerc. Anal.	6.3524	11	1.3222	20.8	3.02	2.6	0	13.6
Moisture (%AR)	500.99	Other	6.8848	6	1.9846	28.8	2.99	5.39	0.77	13.6

Sample: HM22NOV-2 (hemp)			Summary Statistics					Issue Date: January 20, 2023		
CBN (%DW)	505.10	Other LC-UV	0.0466	6	0.0121	26.1	6.32	7.17	1.16	26.6
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.2252	7	0.0366	16.2	4.99	2.7	1.54	4.32
Total CBD (%DW)	507.10	Other LC-UV	7.7735	6	1.0121	13	2.93	1.76	0.64	3.9

1. Data summarized for trueness and precision if 6 or more Lab values and 6 or more Lab RSDr values were available.
2. AR refers to concentration on as-received basis. DW refers to concentration on dry weight basis.