

Hemp Proficiency Testing

Summary Statistics

HM20NOV-1 (hemp)



Sample: HM20NOV-1 (hemp)

Summary Statistics

Issue Date: December 17, 2020

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	0.1476	56	0.0186	12.6	5.32	2.82	0	13.3
Δ9-THCA (%AR)	002	0.0476	49	0.0103	21.7	6.3	5.46	0.91	126
CBD (%AR)	003	2.6784	46	0.2166	8.09	3.44	2.48	0.17	9.21
CBDA (%AR)	004	3.6316	46	0.3348	9.22	3.29	2.66	0.09	10.8
CBN (%AR)	005	0.0193	26	0.005	26.1	7.21	6.47	0	115
Total Δ9-THC (%AR)	006	0.1922	62	0.0269	14	5.11	3.3	0	29.6
Total CBD (%AR)	007	5.9573	49	0.5481	9.2	3.05	2.42	0.04	11.2
CBDV (%AR)	008	0.0209	9	0.0081	38.6	7.13	6.08	0.95	21.1
CBDVA (%AR)	009	0.0387	7	0.0094	24.3	6.5	7.59	1.96	47.3
CBG (%AR)	010	0.0743	21	0.0221	29.8	5.89	8.12	0.8	20.5
CBGA (%AR)	011	0.0951	24	0.0218	22.9	5.68	4.01	0	49.2
CBC (%AR)	014	0.2224	23	0.0135	6.06	5	2.66	0	8.67
Cd (ug/g AR)	101	0.1842	13	0.0373	20.3	20.48	6.41	0.06	34.6

As (ug/g AR)	102	0.6584	12	0.0921	14	16.91	5.38	0.04	19.2
Pb (ug/g AR)	104	1.7072	13	0.379	22.2	14.66	5.21	0	21.3
Moisture (%AR)	500	6.9896	23	1.5879	22.7	2.98	2.57	0	15.7
Δ9-THC (%DW)	501	0.1607	22	0.0175	10.9	5.25	4.05	1.14	13.3
Δ9-THCA (%DW)	502	0.0514	19	0.0146	28.4	6.23	8.56	1.33	37.6
CBD (%DW)	503	2.8483	19	0.2933	10.3	3.41	2.26	0.22	14.8
CBDA (%DW)	504	3.8652	18	0.4684	12.1	3.26	1.92	0.11	16.9
CBN (%DW)	505	0.0195	11	0.0026	13.2	7.2	8.16	1.52	18.4
Total Δ9-THC (%DW)	506	0.2067	25	0.0315	15.3	5.05	3.17	0.26	58.4
Total CBD (%DW)	507	6.345	21	0.7617	12	3.02	2.53	0.12	15.8
CBG (%DW)	510	0.0765	8	0.0236	30.8	5.87	12.79	0.69	31.3
CBGA (%DW)	511	0.1239	9	0.0228	18.4	5.46	4.04	0.84	6.85
CBC (%DW)	514	0.2401	12	0.0194	8.08	4.94	3.69	0.6	33.8

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	0.0184	22	0.0033	17.8	7.27	5.93	0	18.5
Total Δ9-THC (%AR)	GC	0.2056	11	0.0248	12.1	5.06	3.84	1.34	29.6
Total Δ9-THC (%AR)	LC	0.1872	47	0.0241	12.9	5.13	3.15	0	20.4
Total CBD (%AR)	GC	6.7244	6	1.0564	15.7	3	6.33	1.04	11.2
Total CBD (%AR)	LC	5.8714	39	0.4717	8.03	3.06	2.07	0.04	9.52
CBN (%DW)	LC	0.02	9	0.0024	12.1	7.18	8.79	1.52	18.4

Total Δ9-THC (%DW)	LC	0.2005	18	0.0272	13.6	5.08	3.78	0.26	58.4
Total CBD (%DW)	LC	6.2481	15	0.4993	7.99	3.03	2.23	0.12	15.8

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)	001.01	AOAC 2018.10	0.1414	7	0.0154	10.9	5.35	4.48	0	13.3
Δ9-THC (%AR)	001.10	Other LC-UV	0.1477	32	0.0167	11.3	5.32	2.62	0.26	9.45
Δ9-THC (%AR)	001.30	Other LC-MS	0.1482	7	0.0213	14.4	5.31	3.26	0.33	7.44
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0475	29	0.0108	22.8	6.3	5.03	0.91	126
CBD (%AR)	003.10	Other LC-UV	2.6976	29	0.1653	6.13	3.44	2.27	0.17	9.21
CBDA (%AR)	004.10	Other LC-UV	3.6603	29	0.333	9.1	3.28	2.59	0.09	10.8
CBN (%AR)	005.10	Other LC-UV	0.018	15	0.0034	18.9	7.29	6.3	0.58	18.5
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.1926	6	0.035	18.2	5.11	3.94	1.57	20.4
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.1843	29	0.0231	12.5	5.14	2.95	0.34	10
Total Δ9-THC (%AR)	006.30	Other LC-MS	0.1835	6	0.0409	22.3	5.15	1.9	0.77	7.1
Total Δ9-THC (%AR)	006.40	GC-FID	0.2056	11	0.0248	12.1	5.06	3.84	1.34	29.6
Total CBD (%AR)	007.10	Other LC-UV	5.8709	26	0.4288	7.3	3.06	2.01	0.04	9.52
Total CBD (%AR)	007.40	GC-FID	6.7244	6	1.0564	15.7	3	6.33	1.04	11.2
CBDV (%AR)	008.99	Other	0.0197	8	0.0074	37.6	7.19	6.08	0.95	21.1
CBG (%AR)	010.99	Other	0.0675	16	0.0156	23.1	5.98	8.76	0.8	20.5
CBGA (%AR)	011.99	Other	0.099	19	0.0195	19.7	5.65	3.51	0.49	28.6
CBC (%AR)	014.99	Other	0.2237	19	0.0141	6.31	5	2.49	0	7.5

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Cd (ug/g AR)	101.04	ICP-MS	0.187	12	0.0369	19.8	20.43	5.97	0.06	34.6
As (ug/g AR)	102.04	ICP-MS	0.6584	12	0.0921	14	16.91	5.38	0.04	19.2
Pb (ug/g AR)	104.04	ICP-MS	1.7603	12	0.3276	18.6	14.59	5.68	0.02	21.3
Moisture (%AR)	500.70	Commerc. Anal.	6.7207	10	1.2567	18.7	3	2.29	0	5.88
Moisture (%AR)	500.99	Other	6.3894	8	1.5519	24.3	3.02	5.71	0	15.7
Δ9-THC (%DW)	501.10	Other LC-UV	0.1566	13	0.0163	10.4	5.27	3.46	1.14	8.56
Δ9-THCA (%DW)	502.10	Other LC-UV	0.0504	12	0.0127	25.1	6.25	8.42	1.33	37.6
CBD (%DW)	503.10	Other LC-UV	2.8552	12	0.1923	6.74	3.41	1.65	0.22	6.88
CBDA (%DW)	504.10	Other LC-UV	3.8219	11	0.3095	8.1	3.26	1.59	0.11	6.64
CBN (%DW)	505.10	Other LC-UV	0.0207	7	0.0027	13.2	7.14	9.54	1.52	18.4
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.1988	13	0.0275	13.8	5.08	3.27	0.26	10.4
Total CBD (%DW)	507.10	Other LC-UV	6.253	12	0.4042	6.46	3.03	1.33	0.12	6.74
CBG (%DW)	510.99	Other	0.0765	8	0.0236	30.8	5.87	12.79	0.69	31.3
CBGA (%DW)	511.99	Other	0.1239	9	0.0228	18.4	5.46	4.04	0.84	6.85
CBC (%DW)	514.99	Other	0.2401	12	0.0194	8.08	4.94	3.69	0.6	33.8

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.