

Hemp Proficiency Testing

Summary Statistics

HM20NOV-2 (hemp)



Sample: HM20NOV-2 (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	0.0816	55	0.0126	15.4	5.81	4.9	0	15
Δ9-THCA (%AR)	002	0.0512	51	0.012	23.3	6.23	5.39	0.56	21.7
CBD (%AR)	003	1.4603	46	0.1519	10.4	3.77	2.61	0.07	7.84
CBDA (%AR)	004	3.2232	46	0.4047	12.6	3.35	2.88	0.11	11.1
CBN (%AR)	005	0.0241	28	0.0045	18.6	6.98	5.38	0	45
Total Δ9-THC (%AR)	006	0.1304	61	0.0237	18.2	5.42	4.84	0.35	16.6
Total CBD (%AR)	007	4.3651	49	0.5552	12.7	3.2	2.84	0.15	12
CBDV (%AR)	008	0.0369	7	0.0327	88.6	6.55	9.51	0.94	12
CBDVA (%AR)	009	0.0444	6	0.0241	54.3	6.37	8.03	1.55	18.9
CBG (%AR)	010	0.0342	19	0.0139	40.8	6.62	9.59	1.67	43.8
CBGA (%AR)	011	0.0434	19	0.011	25.3	6.39	5	0.55	14.6
CBC (%AR)	014	0.1175	23	0.0108	9.17	5.5	3.68	0.22	37.6
Cd (ug/g AR)	101	0.1737	13	0.0278	16	20.66	5.58	0.22	34.6

As (ug/g AR)	102	0.6422	12	0.0956	14.9	16.98	6.11	0.04	11.2
Pb (ug/g AR)	104	1.7685	13	0.3206	18.1	14.58	5.34	0.01	17.3
Moisture (%AR)	500	7.3771	23	1.6662	22.6	2.96	2.41	0	25
Δ9-THC (%DW)	501	0.0916	22	0.0148	16.2	5.71	5.11	1.43	23.2
Δ9-THCA (%DW)	502	0.0529	19	0.0173	32.8	6.2	5.75	0.59	15.8
CBD (%DW)	503	1.5769	19	0.1884	11.9	3.73	2.92	0.07	12
CBDA (%DW)	504	3.3808	18	0.673	19.9	3.32	3.56	0.24	14
CBN (%DW)	505	0.026	14	0.0055	21.3	6.9	4.69	0.39	11.2
Total Δ9-THC (%DW)	506	0.1426	25	0.0337	23.7	5.34	4.97	1.72	73.7
Total CBD (%DW)	507	4.6456	21	0.7123	15.3	3.17	3.39	0.14	13.1
CBG (%DW)	510	0.0343	8	0.0104	30.3	6.62	18.27	1.93	46.2
CBGA (%DW)	511	0.0626	8	0.0265	42.3	6.05	6.33	0.33	15.6
CBC (%DW)	514	0.1263	12	0.0139	11	5.44	3.3	0.2	29

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	0.0234	24	0.0037	15.7	7.01	5.26	0.42	17.3
Total Δ9-THC (%AR)	GC	0.1596	11	0.0461	28.9	5.26	6.63	0.54	16.6
Total Δ9-THC (%AR)	LC	0.1248	46	0.0184	14.7	5.45	4.59	0.35	13.8
Total CBD (%AR)	GC	5.1716	6	1.0834	20.9	3.12	5.21	0.73	12
Total CBD (%AR)	LC	4.2648	39	0.4735	11.1	3.21	2.79	0.15	10.5
CBN (%DW)	LC	0.0249	11	0.0033	13.2	6.94	4.2	0.39	11.2

Total Δ9-THC (%DW)	LC	0.1337	18	0.0287	21.4	5.4	4.77	1.72	73.7
Total CBD (%DW)	LC	4.4879	15	0.5025	11.2	3.19	3.09	0.14	13.1

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	0.0807	7	0.0109	13.5	5.82	5.86	1.63	14.5
Δ9-THC (%AR)	001.10	Other LC-UV	0.0826	31	0.0135	16.4	5.8	4.89	0	15
Δ9-THC (%AR)	001.30	Other LC-MS	0.0764	7	0.0109	14.2	5.87	3.77	1.1	6.41
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0516	30	0.0144	27.9	6.23	5.08	0.6	14.2
Δ9-THCA (%AR)	002.30	Other LC-MS	0.0551	6	0.0038	6.93	6.16	2.69	0.56	5.94
CBD (%AR)	003.10	Other LC-UV	1.4781	29	0.1381	9.35	3.76	2.4	0.07	7.84
CBDA (%AR)	004.10	Other LC-UV	3.2885	29	0.3632	11	3.34	2.68	0.11	8.16
CBN (%AR)	005.10	Other LC-UV	0.0229	17	0.0032	14.2	7.03	4.24	0.42	17.3
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.1181	6	0.0183	15.5	5.5	5.36	2.01	9.53
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.1243	28	0.0228	18.4	5.46	4.49	0.35	11.9
Total Δ9-THC (%AR)	006.30	Other LC-MS	0.1271	6	0.015	11.8	5.44	3.06	1.97	4.91
Total Δ9-THC (%AR)	006.40	GC-FID	0.1596	11	0.0461	28.9	5.26	6.63	0.54	16.6
Total CBD (%AR)	007.10	Other LC-UV	4.323	26	0.4361	10.1	3.2	2.54	0.15	8.07
Total CBD (%AR)	007.40	GC-FID	5.1716	6	1.0834	20.9	3.12	5.21	0.73	12
CBDV (%AR)	008.99	Other	0.0308	6	0.0283	91.9	6.73	9.51	0.94	12
CBG (%AR)	010.99	Other	0.0283	15	0.0068	24.2	6.81	9.99	1.67	43.8
CBGA (%AR)	011.99	Other	0.0444	15	0.0112	25.2	6.37	4.63	0.55	14.6

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CBC (%AR)	014.99	Other	0.118	19	0.0117	9.91	5.5	2.96	0.22	37.6
Cd (ug/g AR)	101.04	ICP-MS	0.176	12	0.0272	15.4	20.62	5.71	0.22	34.6
As (ug/g AR)	102.04	ICP-MS	0.6422	12	0.0956	14.9	16.98	6.11	0.04	11.2
Pb (ug/g AR)	104.04	ICP-MS	1.8129	12	0.2703	14.9	14.53	4.86	0.01	10
Moisture (%AR)	500.70	Commerc. Anal.	7.2899	10	0.9383	12.9	2.96	2.61	0	18.1
Moisture (%AR)	500.99	Other	6.1765	8	2.3239	37.6	3.04	2.86	0	25
Δ9-THC (%DW)	501.10	Other LC-UV	0.0902	13	0.0124	13.8	5.72	5.55	1.43	23.2
Δ9-THCA (%DW)	502.10	Other LC-UV	0.0535	12	0.0149	27.9	6.19	5.78	0.59	9.15
CBD (%DW)	503.10	Other LC-UV	1.5709	12	0.1477	9.4	3.73	2.08	0.07	5.36
CBDA (%DW)	504.10	Other LC-UV	3.4184	11	0.4003	11.7	3.32	2.74	0.24	6.25
CBN (%DW)	505.10	Other LC-UV	0.0265	9	0.0053	20	6.88	3.22	0.39	5.6
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.1359	13	0.0272	20	5.38	4.81	2.05	11.9
Total CBD (%DW)	507.10	Other LC-UV	4.5716	12	0.496	10.8	3.18	2.61	0.14	5.7
CBG (%DW)	510.99	Other	0.0343	8	0.0104	30.3	6.62	18.27	1.93	46.2
CBGA (%DW)	511.99	Other	0.0626	8	0.0265	42.3	6.05	6.33	0.33	15.6
CBC (%DW)	514.99	Other	0.1263	12	0.0139	11	5.44	3.3	0.2	29

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.