

Hemp Proficiency Testing

Summary Statistics

HM20SEP-1 (hemp)



Sample: HM20SEP-1 (hemp)

Summary Statistics

Issue Date: November 2, 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	0.0793	59	0.0123	15.6	5.84	5.29	0.75	74
Δ9-THCA (%AR)	002	0.0838	56	0.0129	15.4	5.79	5.1	0.12	108
CBD (%AR)	003	1.8077	52	0.2165	12	3.65	2.94	0.06	16.5
CBDA (%AR)	004	3.763	50	0.4792	12.7	3.27	2.86	0.24	10.1
CBN (%AR)	005	0.0131	28	0.0048	36.5	7.65	6.37	0	34.6
Total Δ9-THC (%AR)	006	0.1558	62	0.02	12.8	5.27	4.43	0.29	20
Total CBD (%AR)	007	5.11	50	0.6081	11.9	3.12	2.76	0.16	7.78
CBDVA (%AR)	009	0.0283	6	0.0167	59	6.81	7.22	3.9	134
CBG (%AR)	010	0.0375	18	0.0164	43.8	6.53	7.53	0	38.3
CBGA (%AR)	011	0.0545	21	0.0126	23	6.17	8.01	0.55	26.6
CBC (%AR)	014	0.1174	26	0.0103	8.75	5.5	4.04	0.29	15.2
Cd (ug/g AR)	101	0.0734	8	0.0028	3.8	23.51	5.99	2.07	15.2
As (ug/g AR)	102	0.0686	7	0.0187	27.2	23.74	13.86	6.16	52.3

Pb (ug/g AR)	104	1.4504	9	0.2432	16.8	15.02	9.29	3.14	22.3
Cr (ug/g AR)	107	0.7566	6	0.2957	39.1	16.57	8.85	0.28	18.6
Zn (ug/g AR)	111	100.0735	6	8.948	8.94	7.96	4.39	2.74	10.9
Moisture (%AR)	500	11.3833	19	1.5486	13.6	2.77	2.57	0	6.47
Δ9-THC (%DW)	501	0.0913	20	0.0121	13.3	5.71	4.01	1.11	30.2
Δ9-THCA (%DW)	502	0.0923	19	0.015	16.3	5.71	4.32	0.11	20.2
CBD (%DW)	503	2.021	17	0.2706	13.4	3.59	3.15	0.47	7.84
CBDA (%DW)	504	4.1855	16	0.6805	16.3	3.22	3.03	0.16	10.3
CBN (%DW)	505	0.0203	8	0.0118	57.9	7.16	6.73	0.91	40.5
Total Δ9-THC (%DW)	506	0.1705	23	0.022	12.9	5.2	3.92	0.76	19.8
Total CBD (%DW)	507	5.7148	19	0.7518	13.2	3.07	3.02	0.36	8.04
CBC (%DW)	514	0.1276	9	0.0132	10.4	5.43	2.34	0.73	3.97

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	0.0124	23	0.0039	31.5	7.71	6.15	0	34.6
Total Δ9-THC (%AR)	GC	0.1718	10	0.0296	17.2	5.2	4.36	0.29	9.42
Total Δ9-THC (%AR)	LC	0.1514	47	0.0176	11.6	5.3	4.34	0.41	17.3
Total CBD (%AR)	LC	5.059	40	0.541	10.7	3.13	2.63	0.16	6.52
CBN (%DW)	LC	0.0176	6	0.0075	42.8	7.31	5.1	0.91	11.1
Total Δ9-THC (%DW)	LC	0.1666	18	0.0216	13	5.22	3.75	0.83	10.6
Total CBD (%DW)	LC	5.5242	14	0.7529	13.6	3.09	2.8	0.36	8.04

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	0.0814	7	0.0136	16.8	5.81	8.75	1.41	22.9
Δ9-THC (%AR)	001.02	AOAC 2018.11, UV	0.0765	6	0.0123	16	5.87	5.86	2.46	9.7
Δ9-THC (%AR)	001.10	Other LC-UV	0.0777	29	0.0116	14.9	5.85	4.94	0.75	13.9
Δ9-THC (%AR)	001.30	Other LC-MS	0.0796	10	0.0187	23.5	5.83	5.5	1.28	74
Δ9-THCA (%AR)	002.01	AOAC 2018.10	0.0862	6	0.0077	8.97	5.76	7.62	2.09	31.5
Δ9-THCA (%AR)	002.02	AOAC 2018.11, UV	0.0829	6	0.0125	15.1	5.8	5.86	2.69	17.5
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0815	28	0.0131	16.1	5.81	4.39	0.12	21.7
Δ9-THCA (%AR)	002.30	Other LC-MS	0.0903	9	0.006	6.6	5.72	8.14	1.03	108
CBD (%AR)	003.10	Other LC-UV	1.802	28	0.1709	9.48	3.65	3.1	0.06	6.96
CBD (%AR)	003.30	Other LC-MS	1.9285	8	0.2903	15.1	3.62	2.72	0.58	7.97
CBDA (%AR)	004.10	Other LC-UV	3.776	27	0.4772	12.6	3.27	3.22	0.54	10.1
CBDA (%AR)	004.30	Other LC-MS	4.0543	8	0.3463	8.54	3.23	3.58	0.24	8.41
CBN (%AR)	005.10	Other LC-UV	0.0122	14	0.0036	29.3	7.72	7.02	1.02	34.6
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	0.1603	6	0.012	7.46	5.25	7.41	0.41	17.3
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.1437	7	0.0251	17.4	5.34	5.2	2.42	8.67
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.1475	25	0.0181	12.3	5.32	3.73	0.82	7.88
Total Δ9-THC (%AR)	006.30	Other LC-MS	0.1571	8	0.0116	7.41	5.27	4.51	1.27	9.07
Total Δ9-THC (%AR)	006.40	GC-FID	0.1718	10	0.0296	17.2	5.2	4.36	0.29	9.42
Total CBD (%AR)	007.10	Other LC-UV	5.0348	24	0.5494	10.9	3.13	2.87	0.72	6.52

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Total CBD (%AR)	007.30	Other LC-MS	5.3573	7	0.2006	3.74	3.1	2.49	0.16	6.17
CBG (%AR)	010.99	Other	0.0311	13	0.0107	34.4	6.72	6.48	0	38.3
CBGA (%AR)	011.99	Other	0.0539	16	0.0154	28.6	6.18	6.96	0.55	26.6
CBC (%AR)	014.99	Other	0.1158	21	0.0095	8.17	5.51	3.68	0.29	12.5
Cd (ug/g AR)	101.04	ICP-MS	0.0729	7	0.0028	3.84	23.53	5.26	2.07	8.73
Pb (ug/g AR)	104.04	ICP-MS	1.496	8	0.2002	13.4	14.96	9.24	3.14	22.3
Moisture (%AR)	500.70	Commerc. Anal.	10.8818	9	0.71	6.52	2.79	3.35	0	6.47
Δ9-THC (%DW)	501.10	Other LC-UV	0.0908	11	0.0079	8.75	5.72	3.41	1.12	13.6
Δ9-THCA (%DW)	502.10	Other LC-UV	0.0912	10	0.0154	16.8	5.72	2.97	0.11	7.39
CBD (%DW)	503.10	Other LC-UV	2.0205	10	0.2162	10.7	3.59	3.18	0.47	6.21
CBDA (%DW)	504.10	Other LC-UV	4.0572	9	0.7483	18.4	3.23	3.19	1.04	6.16
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.1686	12	0.0215	12.8	5.21	3.36	0.83	7.88
Total CBD (%DW)	507.10	Other LC-UV	5.5349	10	0.7532	13.6	3.09	2.72	0.74	6.07
CBC (%DW)	514.99	Other	0.1276	9	0.0132	10.4	5.43	2.34	0.73	3.97

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.