

Hemp Proficiency Testing

Summary Statistics

HM20SEP-2 (hemp)



Sample: HM20SEP-2 (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	0.2311	61	0.026	11.3	4.97	3.31	0.13	16.2
Δ9-THCA (%AR)	002	0.0598	54	0.0135	22.6	6.09	6.92	0	173
CBD (%AR)	003	3.6896	52	0.4358	11.8	3.28	2.64	0.12	26.1
CBDA (%AR)	004	3.8009	50	0.3942	10.4	3.27	2.65	0.05	10.6
CBN (%AR)	005	0.0286	36	0.0064	22.2	6.8	5.29	0	43.3
Total Δ9-THC (%AR)	006	0.2858	64	0.0371	13	4.82	3.48	0.33	14
Total CBD (%AR)	007	7.0309	50	0.7646	10.9	2.98	2.37	0.21	17
CBDV (%AR)	008	0.0392	12	0.0224	57.1	6.49	6.71	0	128
CBDVA (%AR)	009	0.0422	10	0.011	26	6.42	4.37	0	8.79
CBG (%AR)	010	0.0812	23	0.0234	28.8	5.82	7.45	0.35	51.8
CBGA (%AR)	011	0.0989	25	0.0181	18.4	5.65	5.28	0	23.8
CBC (%AR)	014	0.2032	26	0.0181	8.9	5.07	3.44	0.28	12
Cd (ug/g AR)	101	0.165	9	0.016	9.7	20.82	5.67	2.07	13.8

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As (ug/g AR)	102	0.3657	9	0.0837	22.9	18.47	5.74	1.8	31.4
Pb (ug/g AR)	104	1.0631	9	0.1521	14.3	15.74	5.96	0	11.7
Ni (ug/g AR)	106	4.0909	6	0.7982	19.5	12.86	3.73	1.06	22.1
Cr (ug/g AR)	107	9.4195	6	5.233	55.6	11.35	2.38	0.59	6.65
Zn (ug/g AR)	111	53.3374	6	8.4639	15.9	8.75	6.41	0.89	18.6
Moisture (%AR)	500	7.0845	19	1.4171	20	2.97	3.95	0	11.2
Δ9-THC (%DW)	501	0.2514	20	0.0267	10.6	4.91	2.51	0.23	16.2
Δ9-THCA (%DW)	502	0.063	18	0.012	19.1	6.04	5.26	0	20.6
CBD (%DW)	503	3.8882	17	0.4217	10.8	3.26	1.98	0.23	5.26
CBDA (%DW)	504	4.1134	16	0.4778	11.6	3.23	2.47	0.26	7.63
CBN (%DW)	505	0.0354	11	0.0117	33	6.59	4.23	0.67	17.6
Total Δ9-THC (%DW)	506	0.3065	23	0.035	11.4	4.76	3.14	0.37	14
Total CBD (%DW)	507	7.5202	19	0.9207	12.2	2.95	2.28	0.3	5.19
CBG (%DW)	510	0.079	7	0.028	35.4	5.84	19.28	3.55	55
CBGA (%DW)	511	0.1149	6	0.026	22.6	5.52	7.76	0.49	23.8
CBC (%DW)	514	0.2163	9	0.0196	9.05	5.02	1.8	0.29	2.77

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	0.0278	30	0.0055	19.8	6.83	4.68	0	43.3
Total Δ9-THC (%AR)	GC	0.3141	10	0.0421	13.4	4.75	3.55	0.74	10.6
Total Δ9-THC (%AR)	LC	0.2791	49	0.0323	11.6	4.83	3.29	0.33	12.1

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Total CBD (%AR)	LC	6.9639	40	0.657	9.43	2.98	2.16	0.26	6.91
CBN (%DW)	LC	0.0338	9	0.0103	30.3	6.63	3.59	0.67	12.1
Total Δ9-THC (%DW)	LC	0.3047	18	0.0348	11.4	4.77	2.79	0.37	13.2
Total CBD (%DW)	LC	7.4136	14	0.8206	11.1	2.95	2.07	0.3	4.67

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	0.2291	8	0.0245	10.7	4.98	4.21	1.45	8.77
Δ9-THC (%AR)	001.10	Other LC-UV	0.2301	31	0.0253	11	4.97	3.19	0.39	7.37
Δ9-THC (%AR)	001.30	Other LC-MS	0.2561	10	0.0509	19.9	4.9	3.3	0.49	7.77
Δ9-THCA (%AR)	002.01	AOAC 2018.10	0.0584	6	0.009	15.5	6.11	9.11	0	39
Δ9-THCA (%AR)	002.02	AOAC 2018.11, UV	0.0665	6	0.0211	31.7	5.99	7.7	3.93	10.6
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0595	27	0.0131	22	6.09	5.77	0	129
Δ9-THCA (%AR)	002.30	Other LC-MS	0.0638	8	0.0047	7.36	6.03	5.68	1.83	173
CBD (%AR)	003.02	AOAC 2018.11, UV	3.4667	6	0.7711	22.2	3.31	1.96	0.12	5.92
CBD (%AR)	003.10	Other LC-UV	3.7344	28	0.3933	10.5	3.27	2.74	0.5	26.1
CBD (%AR)	003.30	Other LC-MS	3.891	8	0.5846	15	3.25	4.08	1.15	12.4
CBDA (%AR)	004.10	Other LC-UV	3.8043	27	0.3775	9.92	3.27	2.86	0.26	10.6
CBDA (%AR)	004.30	Other LC-MS	4.0695	8	0.321	7.89	3.23	3.39	0.74	6.67
CBN (%AR)	005.10	Other LC-UV	0.0264	19	0.0053	20	6.88	4.46	0	43.3
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	0.2787	6	0.0171	6.14	4.83	5.05	0.76	11.4
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.2758	7	0.0477	17.3	4.84	3.56	0.67	8.08

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Total Δ9-THC (%AR)	006.10	Other LC-UV	0.274	27	0.0328	12	4.85	3.18	0.33	9.52
Total Δ9-THC (%AR)	006.30	Other LC-MS	0.2973	8	0.0456	15.4	4.79	2.67	0.78	12.1
Total Δ9-THC (%AR)	006.40	GC-FID	0.3141	10	0.0421	13.4	4.75	3.55	0.74	10.6
Total CBD (%AR)	007.10	Other LC-UV	6.9037	24	0.6345	9.19	2.99	2.47	0.45	5.62
Total CBD (%AR)	007.30	Other LC-MS	7.2882	7	0.4401	6.04	2.96	2.52	0.53	6.91
CBDV (%AR)	008.99	Other	0.0392	12	0.0224	57.1	6.49	6.71	0	128
CBDVA (%AR)	009.99	Other	0.0449	6	0.0197	43.9	6.36	4.01	0.28	8.79
CBG (%AR)	010.99	Other	0.0724	17	0.0164	22.7	5.92	9.47	0.35	51.8
CBGA (%AR)	011.99	Other	0.0943	20	0.0197	20.9	5.69	5.23	1	23.8
CBC (%AR)	014.99	Other	0.2018	21	0.017	8.41	5.07	3.09	0.28	8.25
Cd (ug/g AR)	101.04	ICP-MS	0.1689	8	0.0109	6.46	20.74	5.69	2.07	13.8
As (ug/g AR)	102.04	ICP-MS	0.3386	8	0.0385	11.4	18.69	4.51	1.8	12
Pb (ug/g AR)	104.04	ICP-MS	1.0916	8	0.1253	11.5	15.68	6.74	0.76	11.7
Moisture (%AR)	500.70	Commerc. Anal.	6.6542	9	0.5947	8.94	3	5.23	0	11.2
Δ9-THC (%DW)	501.10	Other LC-UV	0.2517	11	0.0216	8.59	4.91	2.71	0.26	5.03
Δ9-THCA (%DW)	502.10	Other LC-UV	0.0616	10	0.011	17.9	6.06	3.32	0	14.7
CBD (%DW)	503.10	Other LC-UV	3.8602	10	0.3218	8.34	3.26	2.11	0.23	4.58
CBDA (%DW)	504.10	Other LC-UV	4.1236	9	0.4672	11.3	3.23	2.38	0.36	4.95
CBN (%DW)	505.10	Other LC-UV	0.035	7	0.0125	35.8	6.6	3.96	0.67	12.1
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.3033	12	0.0332	10.9	4.77	2.89	0.37	9.39
Total CBD (%DW)	507.10	Other LC-UV	7.3469	10	0.8872	12.1	2.96	2.06	0.37	4.67
CBG (%DW)	510.99	Other	0.079	7	0.028	35.4	5.84	19.28	3.55	55
CBGA (%DW)	511.99	Other	0.1149	6	0.026	22.6	5.52	7.76	0.49	23.8
CBC (%DW)	514.99	Other	0.2163	9	0.0196	9.05	5.02	1.8	0.29	2.77

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.