

Hemp Proficiency Testing

Summary Statistics

HM22SEP-2 (hemp)



Sample: HM22SEP-2 (hemp)

Summary Statistics

Issue Date: November 18, 2022

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	0.1851	42	0.0214	11.6	5.14	3.16	0	24.6
Δ9-THCA (%AR)	002	0.0236	31	0.0086	36.6	7	8.61	0.41	67.7
CBD (%AR)	003	5.1612	33	0.444	8.6	3.12	2.56	0	20.2
CBDA (%AR)	004	3.0527	31	0.3205	10.5	3.38	3.01	0.02	6.63
CBN (%AR)	005	0.0511	22	0.0085	16.6	6.23	3.33	0	18.4
Total Δ9-THC (%AR)	006	0.2081	49	0.0365	17.5	5.05	3.44	0.02	24.6
Total CBD (%AR)	007	7.8421	35	0.7939	10.1	2.93	2.92	0	12.4
CBDV (%AR)	008	0.042	10	0.0055	13	6.42	2.19	0	11
CBG (%AR)	010	0.1697	16	0.0402	23.7	5.21	2.1	0.1	7.15
CBGA (%AR)	011	0.1559	14	0.0189	12.1	5.27	2.6	0.1	7.62
CBC (%AR)	014	0.2695	15	0.015	5.56	4.86	1.78	0.25	4.08
Cd (ug/g AR)	101	0.1794	6	0.0239	13.3	20.56	6.34	2.54	12.4
As (ug/g AR)	102	0.2232	7	0.0258	11.6	19.89	6.22	3.3	12.8

Pb (ug/g AR)	104	0.6687	7	0.0636	9.51	16.88	5.48	1.25	16.7
Moisture (%AR)	500	7.5663	23	1.7318	22.9	2.95	3.45	0	11
Δ9-THC (%DW)	501	0.2097	13	0.0238	11.3	5.04	3.05	0.49	17.4
Δ9-THCA (%DW)	502	0.0308	9	0.0131	42.5	6.73	4.72	1.32	9.08
CBD (%DW)	503	5.6295	12	0.5432	9.65	3.08	2.05	0.44	20.4
CBDA (%DW)	504	3.3788	11	0.381	11.3	3.32	1.77	0.38	2.98
CBN (%DW)	505	0.0551	10	0.0073	13.3	6.16	4.42	0.6	17.9
Total Δ9-THC (%DW)	506	0.23	18	0.0308	13.4	4.97	3.46	0.4	12.5
Total CBD (%DW)	507	8.6274	14	0.8148	9.44	2.89	2.56	0.56	12.7
CBG (%DW)	510	0.1873	6	0.0097	5.16	5.13	2.48	0.45	4.42

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	0.0494	16	0.0076	15.4	6.27	3.14	0	18.4
Total Δ9-THC (%AR)	GC	0.2195	10	0.044	20	5.01	3.58	1.66	20.8
Total Δ9-THC (%AR)	LC	0.2018	35	0.031	15.4	5.07	3.26	0.02	24.6
Total CBD (%AR)	GC	8.1345	6	1.3399	16.5	2.91	4.94	2.38	11.2
Total CBD (%AR)	LC	7.7652	25	0.7479	9.63	2.93	2.65	0	6.71
CBN (%DW)	LC	0.0539	8	0.0067	12.4	6.18	3.92	0.6	17.9
Total Δ9-THC (%DW)	LC	0.2298	13	0.0368	16	4.98	3.42	0.4	8.33
Total CBD (%DW)	LC	8.4982	10	0.8027	9.45	2.89	1.69	0.56	6.31

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)	001.10	Other LC-UV	0.1823	24	0.0212	11.6	5.15	3.59	0.23	24.6
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0244	17	0.0108	44.5	6.97	12.31	1.96	67.7
CBD (%AR)	003.10	Other LC-UV	5.1551	20	0.4119	7.99	3.12	2.38	0.11	6.79
CBDA (%AR)	004.10	Other LC-UV	3.0407	19	0.3159	10.4	3.38	3.05	0.71	6.63
CBN (%AR)	005.10	Other LC-UV	0.0487	11	0.0076	15.7	6.28	2.68	0	18.4
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.2152	6	0.0474	22	5.02	3.6	1.63	5.7
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.198	20	0.0344	17.4	5.09	3.34	0.23	24.6
Total Δ9-THC (%AR)	006.40	GC-FID	0.2195	10	0.044	20	5.01	3.58	1.66	20.8
Total CBD (%AR)	007.10	Other LC-UV	7.7727	16	0.69	8.88	2.93	2.73	0.7	6.71
Total CBD (%AR)	007.40	GC-FID	8.1345	6	1.3399	16.5	2.91	4.94	2.38	11.2
CBDV (%AR)	008.99	Other	0.042	10	0.0055	13	6.42	2.19	0	11
CBG (%AR)	010.99	Other	0.1669	15	0.0393	23.6	5.22	1.89	0.1	7.15
CBGA (%AR)	011.99	Other	0.1559	13	0.0214	13.7	5.27	2.52	0.1	7.62
CBC (%AR)	014.99	Other	0.2698	14	0.0167	6.21	4.86	1.77	0.25	4.08
Cd (ug/g AR)	101.04	ICP-MS	0.1794	6	0.0239	13.3	20.56	6.34	2.54	12.4
As (ug/g AR)	102.04	ICP-MS	0.2232	7	0.0258	11.6	19.89	6.22	3.3	12.8
Pb (ug/g AR)	104.04	ICP-MS	0.6687	7	0.0636	9.51	16.88	5.48	1.25	16.7
Moisture (%AR)	500.70	Commerc. Anal.	7.449	11	1.3917	18.7	2.95	2.97	0	8.03
Moisture (%AR)	500.99	Other	6.7831	7	2.0554	30.3	2.99	5.04	0.82	11
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.2291	7	0.0529	23.1	4.98	3.45	0.4	8.33

Total CBD (%DW)	507.10	Other LC-UV	8.6785	6	0.9186	10.6	2.89	1.7	0.7	6.31
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- 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.