

Hemp Proficiency Testing

Summary Statistics

HM22NOV-1 (hemp)



Sample: HM22NOV-1 (hemp)

Summary Statistics

Issue Date: January 20, 2023

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	0.192	40	0.024	12.5	5.11	3.09	0.23	10.1
Δ9-THCA (%AR)	002	0.0697	37	0.0101	14.4	5.95	4.9	0.21	16.2
CBD (%AR)	003	1.8349	31	0.1464	7.98	3.64	2.63	0.15	10.3
CBDA (%AR)	004	0.996	28	0.1342	13.5	3.99	2.37	0.11	6.83
CBN (%AR)	005	0.0589	23	0.0099	16.8	6.1	3.57	0.21	12.7
Total Δ9-THC (%AR)	006	0.2565	47	0.0388	15.1	4.89	3.06	0.29	12
Total CBD (%AR)	007	2.6824	33	0.2332	8.69	3.44	2.77	0.22	8.45
CBG (%AR)	010	0.7956	15	0.0676	8.5	4.13	2.27	0.29	7.1
CBGA (%AR)	011	1.2139	13	0.066	5.43	3.88	2.26	0.18	6.45
CBC (%AR)	014	0.1853	15	0.0169	9.14	5.14	2.33	0.03	7.92
Cd (ug/g AR)	101	0.1262	7	0.0211	16.7	21.67	4.39	1.05	8.27
As (ug/g AR)	102	0.0981	7	0.019	19.4	22.5	8.82	3.61	17.3
Pb (ug/g AR)	104	0.6152	9	0.105	17.1	17.09	9.58	4.17	19.2

Moisture (%AR)	500	6.6561	22	1.7359	26.1	3	3.79	0	14.4
Δ9-THC (%DW)	501	0.1961	13	0.037	18.9	5.1	3.75	0.35	16.5
Δ9-THCA (%DW)	502	0.077	12	0.0189	24.5	5.86	4.33	1.68	7.91
CBD (%DW)	503	1.9958	12	0.1188	5.95	3.6	2.59	0.06	10.1
CBDA (%DW)	504	1.0374	11	0.1427	13.8	3.97	1.33	0.27	4.4
CBN (%DW)	505	0.061	12	0.0105	17.2	6.07	2.92	0.15	9.11
Total Δ9-THC (%DW)	506	0.2582	18	0.0494	19.1	4.89	3.21	0.23	6.09
Total CBD (%DW)	507	2.9462	14	0.2587	8.78	3.39	2.1	0.16	6.02
CBG (%DW)	510	0.8835	6	0.0333	3.77	4.07	1.78	0.29	4.23
CBC (%DW)	514	0.1986	7	0.0183	9.23	5.09	4.15	0.03	13.4

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	0.0568	18	0.0072	12.7	6.14	3.27	0.21	12.7
Total Δ9-THC (%AR)	GC	0.2679	11	0.0383	14.3	4.86	3.4	1.41	12
Total Δ9-THC (%AR)	LC	0.254	32	0.0354	13.9	4.9	2.92	0.29	9.97
Total CBD (%AR)	GC	2.7794	6	0.4276	15.4	3.42	3.31	0.91	6.02
Total CBD (%AR)	LC	2.6849	23	0.1975	7.35	3.44	2.33	0.22	8.45
CBN (%DW)	LC	0.0593	11	0.0075	12.7	6.1	3.23	0.15	9.11
Total Δ9-THC (%DW)	LC	0.2592	14	0.0504	19.4	4.89	3.15	0.23	6.09
Total CBD (%DW)	LC	2.8785	11	0.2151	7.47	3.41	1.63	0.16	5.07

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)	001.02	AOAC 2018.11, UV	0.1854	7	0.0218	11.8	5.14	2.41	0.23	7.36
Δ9-THC (%AR)	001.10	Other LC-UV	0.1931	22	0.0197	10.2	5.11	3.14	0.35	10.1
Δ9-THCA (%AR)	002.02	AOAC 2018.11, UV	0.0683	7	0.0144	21.1	5.97	5.45	1.04	9.39
Δ9-THCA (%AR)	002.10	Other LC-UV	0.0695	21	0.0099	14.3	5.95	5.72	0.21	16.2
CBD (%AR)	003.10	Other LC-UV	1.8609	19	0.1308	7.03	3.64	2.27	0.38	8.7
CBDA (%AR)	004.10	Other LC-UV	0.9994	17	0.1061	10.6	3.99	2.52	0.27	6.83
CBN (%AR)	005.10	Other LC-UV	0.0552	12	0.0078	14	6.16	2.34	0.24	9.12
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, UV	0.2477	7	0.0312	12.6	4.92	2.83	0.29	6.47
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.2506	17	0.0394	15.7	4.91	2.97	0.44	9.97
Total Δ9-THC (%AR)	006.40	GC-FID	0.2679	11	0.0383	14.3	4.86	3.4	1.41	12
Total CBD (%AR)	007.02	AOAC 2018.11, UV	2.627	6	0.2333	8.88	3.45	3.4	0.24	8.45
Total CBD (%AR)	007.10	Other LC-UV	2.6768	14	0.1907	7.12	3.44	2.28	0.22	8.25
Total CBD (%AR)	007.40	GC-FID	2.7794	6	0.4276	15.4	3.42	3.31	0.91	6.02
CBG (%AR)	010.99	Other	0.7998	14	0.0689	8.61	4.13	2.13	0.29	7.1
CBGA (%AR)	011.99	Other	1.2209	12	0.0617	5.05	3.87	2.01	0.18	4.7
CBC (%AR)	014.99	Other	0.1863	13	0.0181	9.7	5.13	2.28	0.03	4.51
Cd (ug/g AR)	101.04	ICP-MS	0.1262	7	0.0211	16.7	21.67	4.39	1.05	8.27
As (ug/g AR)	102.04	ICP-MS	0.0981	7	0.019	19.4	22.5	8.82	3.61	17.3
Pb (ug/g AR)	104.04	ICP-MS	0.6152	9	0.105	17.1	17.09	9.58	4.17	19.2
Moisture (%AR)	500.70	Commerc. Anal.	6.3344	11	1.3547	21.4	3.03	3.32	0	7.8

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Moisture (%AR)	500.99	Other	6.5667	6	1.6674	25.4	3.01	5.94	0	14.4
CBN (%DW)	505.10	Other LC-UV	0.0613	6	0.0126	20.5	6.07	3.01	0.15	9.11
Total Δ9-THC (%DW)	506.10	Other LC-UV	0.2691	7	0.0616	22.9	4.86	2.62	0.45	4.71
Total CBD (%DW)	507.10	Other LC-UV	2.9268	6	0.2185	7.47	3.4	1.39	0.22	3.26

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.