

Hemp Proficiency Testing

Summary Statistics



Samples: HMOCT18-1 and HMOCT18-2

Issue Date: 12/13/2018

By Analyte

HM18OCT-1 (hemp)

Analyte	Code	Trueness				Horwitz %RSD	Precision		
		Rob Mean	n	Rob StDev	%RSD		Rob Mean	n	Rob StDev
Δ9-THC (%)	001	0.0287	24	0.0049	17	6.8	7.86	23	7.28
Δ9-THCA (%)	002	0.0224	12	0.0187	83.7	7.06	12.36	11	13.08
CBD (%)	003	0.7854	28	0.099	12.6	4.14	3.72	28	3.03
CBDA (%)	004	0.3631	24	0.0921	25.4	4.65	4.79	24	3.57
CBN (%)	005	0.028	16	0.0314	112	6.82	14.68	13	13.54
Total Δ9-THC (%)	006	0.0435	28	0.0184	42.3	6.39	8.74	27	7.32
Total CBD (%)	007	1.0906	32	0.1679	15.4	3.94	5.8	32	4.57

HM18OCT-2 (hemp)

Analyte	Code	Trueness				Horwitz %RSD	Precision		
		Rob Mean	n	Rob StDev	%RSD		Rob Mean	n	Rob StDev
Δ9-THC (%)	001	0.1	29	0.0221	22.1	5.64	5.33	27	3.64
Δ9-THCA (%)	002	0.1097	27	0.0341	31.1	5.56	5.39	27	4.14
CBD (%)	003	0.8051	28	0.1728	21.5	4.12	4.49	28	3.29

CBDA (%)	004	2.697	24	0.4352	16.1	3.44	3.69	24	2.92
CBN (%)	005	0.038	15	0.038	100	6.52	24.22	13	21.85
Total Δ9-THC (%)	006	0.2031	35	0.0364	17.9	5.07	4.17	35	2.89
Total CBD (%)	007	3.167	31	0.4399	13.9	3.36	4.28	31	2.97

By Method Group

HM18OCT-1 (hemp)

Analyte	Code	Trueness				Horwitz %RSD	Precision		
		Rob Mean	n	Rob StDev	%RSD		Rob Mean	n	Rob StDev
Δ9-THC (%)	LC	0.0287	21	0.0043	14.9	6.8	8.46	21	7.88
Δ9-THCA (%)	LC	0.0224	12	0.0187	83.7	7.06	12.36	11	13.08
CBD (%)	LC	0.7738	25	0.0872	11.3	4.15	3.97	25	3.31
CBDA (%)	LC	0.3703	22	0.0886	23.9	4.63	4.92	22	3.8
CBN (%)	LC	0.0111	11	0.0108	97.4	7.84	11.68	9	11.87
Total Δ9-THC (%)	GC	0.0679	6	0.0491	72.3	5.97	11.45	6	7.78
Total Δ9-THC (%)	LC	0.0397	21	0.0149	37.4	6.47	8.08	20	6.82
Total CBD (%)	GC	1.2973	8	0.4487	34.6	3.84	10.25	8	10.22
Total CBD (%)	LC	1.0624	22	0.1505	14.2	3.95	5.27	22	3.7

HM18OCT-2 (hemp)

Analyte	Code	Trueness				Horwitz %RSD	Precision		
		Rob Mean	n	Rob StDev	%RSD		Rob Mean	n	Rob StDev
Δ9-THC (%)	LC	0.097	25	0.0188	19.4	5.66	5.28	24	3.56
Δ9-THCA (%)	LC	0.1129	25	0.0325	28.8	5.54	4.99	25	3.88

CBD (%)	LC	0.7814	25	0.1497	19.2	4.14	4.61	25	3.61
CBDA (%)	LC	2.7269	22	0.4212	15.4	3.43	3.78	22	3.06
CBN (%)	LC	0.0184	8	0.0195	106	7.26	31.45	8	27.98
Total Δ9-THC (%)	GC	0.2165	9	0.0317	14.6	5.02	4.07	9	2.88
Total Δ9-THC (%)	LC	0.1973	24	0.0387	19.6	5.09	4.12	24	2.67
Total CBD (%)	GC	3.3721	7	0.5152	15.3	3.33	4.95	7	2.55
Total CBD (%)	LC	3.1238	22	0.4216	13.5	3.36	4.33	22	3.32

By Method

HM18OCT-1 (hemp)

Analyte	Code		Trueness				Horwitz %RSD	Precision		
			Rob Mean	n	Rob StDev	%RSD		Rob Mean	n	Rob StDev
Δ9-THC (%)	001.10	HPLC-UVVIS	0.0287	16	0.0052	18.2	6.8	10.71	16	10.47
Δ9-THCA (%)	002.10	HPLC-UVVIS	0.0334	9	0.0325	97.3	6.64	26.97	8	37.08
CBD (%)	003.10	HPLC-UVVIS	0.7862	20	0.1009	12.8	4.14	4.49	20	3.75
CBDA (%)	004.10	HPLC-UVVIS	0.3905	18	0.069	17.7	4.6	5.37	18	3.88
CBN (%)	005.10	HPLC-UVVIS	0.0228	8	0.0289	127	7.04	13.03	7	15.01
Total Δ9-THC (%)	006.10	HPLC-UVVIS	0.0423	16	0.018	42.6	6.41	11.12	15	10.31
Total Δ9-THC (%)	006.40	GC-FID	0.0679	6	0.0491	72.3	5.97	11.45	6	7.78
Total CBD (%)	007.10	HPLC-UVVIS	1.0896	18	0.1492	13.7	3.94	6.01	18	3.93
Total CBD (%)	007.40	GC-FID	1.1589	7	0.2469	21.3	3.9	11.18	7	10.56

HM18OCT-2 (hemp)

Analyte	Code		Trueness				Horwitz %RSD	Precision		
			Rob Mean	n	Rob StDev	%RSD		Rob Mean	n	Rob StDev
Δ9-THC (%)	001.10	HPLC-UVVIS	0.097	20	0.0223	23	5.66	5.32	19	3.53
Δ9-THCA (%)	002.10	HPLC-UVVIS	0.1119	20	0.03	26.8	5.54	5.12	20	4.38
CBD (%)	003.10	HPLC-UVVIS	0.8023	20	0.1564	19.5	4.12	4.62	20	4.14
CBDA (%)	004.10	HPLC-UVVIS	2.8359	18	0.3605	12.7	3.41	3.9	18	3.1
CBN (%)	005.10	HPLC-UVVIS	0.0242	6	0.018	74.2	6.97	32.17	6	31.45
Total Δ9-THC (%)	006.10	HPLC-UVVIS	0.195	19	0.0384	19.7	5.1	4.1	19	2.87
Total Δ9-THC (%)	006.40	GC-FID	0.2121	8	0.03	14.1	5.04	4.32	8	3.24
Total CBD (%)	007.10	HPLC-UVVIS	3.2296	18	0.3686	11.4	3.35	4.64	18	3.74
Total CBD (%)	007.40	GC-FID	3.2964	6	0.5065	15.4	3.34	4.84	6	2.78