University of Kentucky
Regulatory Services
College of Agriculture, Food and Environment

Hemp Proficiency Testing

Summary Statistics

OL21NOV-1 (oil)

HEMP
Proficiency Testing Program

Sample: OL21NOV-1 (oil) **Summary Statistics** **Issue Date: December 20, 2021**

By Analyte

		Trueness (Lab Value)				Horwitz	Precision (Lab RSDr)		
Analyte	Code	Rob Mean	n	Rob StDev	%RSD	%RSD	Rob Mean	min	max
Δ9-THC (%AR)	001	0.1036	38	0.0129	12.4	5.61	3.08	0	14.3
CBD (%AR)	003	1.6961	36	0.1151	6.79	3.69	2.57	0.02	8.42
CBDA (%AR)	004	0.0356	29	0.0098	27.6	6.58	8.14	0	48.7
CBN (%AR)	005	0.0355	25	0.0044	12.4	6.58	4.09	0	20.6
Total Δ9-THC (%AR)	006	0.1001	32	0.0084	8.42	5.64	3.38	0	14.3
Total CBD (%AR)	007	1.7227	32	0.1042	6.05	3.68	2.6	0.19	6.13
CBDV (%AR)	008	0.0232	12	0.0156	67.3	7.02	6.32	0	34.6
CBG (%AR)	010	0.0904	26	0.0196	21.7	5.72	4.53	0.58	15.9
Δ8-THC (%AR)	013	0.2669	31	0.0177	6.63	4.87	2.52	0.02	15
CBC (%AR)	014	0.1208	24	0.0088	7.3	5.48	2.62	0	116

By Method Group

Analyte	Code	Trueness (Lab Value) Rob Mean	n	Rob StDev	%RSD	Horwitz %RSD	Precision (Lab RSDr) Rob Mean	min	max
CBN (%AR)	LC	0.0356	22	0.0039	11	6.58	3.4	0	14
Total Δ9-THC (%AR)	LC	0.1002	26	0.0081	8.11	5.63	3.1	0	8.8
Total CBD (%AR)	LC	1.724	26	0.0947	5.5	3.68	2.53	0.19	6.13

By Method

Analyte	Code		Trueness (Lab Value) Rob Mean	n	Rob StDev	%RSD	Horwitz %RSD	Precision (Lab RSDr) Rob Mean	min	max
Δ9-THC (%AR)	001.10	Other LC-UV	0.1012	24	0.0074	7.29	5.63	2.79	0	11.3
CBD (%AR)	003.02	AOAC 2018.11, UV	2.5663	6	1.3159	51.3	3.46	2.64	0.02	5.61
CBD (%AR)	003.10	Other LC-UV	1.6914	22	0.0924	5.46	3.69	2.16	0.19	8.42
CBDA (%AR)	004.10	Other LC-UV	0.0342	18	0.0083	24.4	6.62	9.48	0.47	43.3
CBN (%AR)	005.10	Other LC-UV	0.0356	16	0.0034	9.44	6.58	2.88	0	14
Total Δ9-THC (%AR)	006.10	Other LC-UV	0.1008	19	0.0061	6.02	5.63	2.88	0	8.8
Total CBD (%AR)	007.10	Other LC-UV	1.7138	19	0.0911	5.32	3.68	2.12	0.19	6.13
CBDV (%AR)	008.99	Other	0.0185	10	0.0106	57.3	7.26	8.44	0	34.6
CBG (%AR)	010.99	Other	0.0889	21	0.0172	19.4	5.74	5.09	0.67	15.9
Δ8-THC (%AR)	013.99	Other	0.2635	24	0.0142	5.4	4.87	2.32	0.02	15
CBC (%AR)	014.99	Other	0.1195	20	0.0079	6.6	5.49	2.15	0	9.79

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.