

Loadlist-Alcohol Reference Solution Verification

Location	Sample
1	Volatiles Mix
2	Blank
3	Cerilliant 25
4	Cerilliant 100
5	Cerilliant 200
6	Cerilliant 400
7	Blank
8	Lipomed 50
9	2228
10	2229
11	2230
12	2231
13	2232
14	2233
15	2216
16	2217
17	2218
18	2219
19	Lipomed 100
20	2228
21	2229
22	2230
23	2231
24	2232
25	2233
26	2216
27	2217
28	2218
29	2219
30	Lipomed 300

Instrument Parameters			
Sample Temp	60	C	X
Needle Temp	70	C	X
Transfer Temp	80	C	X
Thermostat time	15	min	X
Pressurization time	2.0	min	X
Withdraw time	0.2	min	X
Injection Time	0.03	min	X
Cycle Time	4.5	min	X
Inlet temp	90	C	X
He Carrier pressure	15	psi	X
Column oven temp	55	C	X
Run Time	5.0	min	X
FID Temp	220	C	X
Hydrogen Flow	45	mL/min	X
Air Flow	450	mL/min	X

Procedure Used	Eff. Date
ATP-TSOP v.1 section 4	Jan-21

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	110420BK	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	21-Nov
Cerilliant 025	FN09081706	5/2023
Cerilliant 100	FN02271802	4/2023
Cerilliant 200	FN06231704	8/2022
Cerilliant 400	FN05131606	6/2021
Lipomed 50	10072019-A	7/2024
Lipomed 100	14082019-A	8/2024
Lipomed 300	11092018-B	9/2023

Reference Solution

Level Tested:	0.050g/210L
Lot #:	202101C
Manufacture Date:	1/12/2021
Expiration Date	1/12/2023

Operator: Brett Kirkland *BK*

Date: 2/11/2021

Alcohol Analysis QC Summary

Report Date	2/11/2021
Reviewer	Brett Kirkland

BK

Run Summary Data			Ethanol				n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
2/11/2021	A	Volatiles Mix	041513 DKR	1.415	26483.40	0.0369	2.009	248283.32	
2/11/2021	A	Blank	167428		0.00	0.0000	2.008	243213.31	
2/11/2021	A	CER 025	FN09081706	1.415	17808.71	0.0253	2.009	245738.47	
2/11/2021	A	CER 100	FN02271802	1.415	70988.57	0.0995	2.009	244471.24	
2/11/2021	A	CER 200	FN06231704	1.415	142330.77	0.1993	2.009	243970.67	
2/11/2021	A	CER 400	FN05131606	1.414	288317.08	0.4004	2.009	245199.56	
2/11/2021	A	Blank	167428		0.00	0.0000	2.008	245481.76	
2/11/2021	A	Lipomed 50	10072019-A	1.415	35284.55	0.0505	2.009	242386.76	
2/11/2021	A	2228	202101C	1.414	43662.29	0.0611	2.008	246793.99	
2/11/2021	A	2229	202101C	1.415	43465.96	0.0609	2.009	246899.22	
2/11/2021	A	2230	202101C	1.415	43605.00	0.0610	2.009	246923.84	
2/11/2021	A	2231	202101C	1.415	43662.50	0.0610	2.009	247347.49	
2/11/2021	A	2232	202101C	1.415	42823.53	0.0608	2.008	243357.60	
2/11/2021	A	2233	202101C	1.415	42727.21	0.0612	2.008	241111.14	
2/11/2021	A	2216	202101C	1.415	42527.00	0.0609	2.009	241424.50	
2/11/2021	A	2217	202101C	1.415	42669.30	0.0609	2.009	242046.70	
2/11/2021	A	2218	202101C	1.415	43554.63	0.0612	2.008	245916.59	
2/11/2021	A	2219	202101C	1.415	43011.94	0.0610	2.009	243596.04	
2/11/2021	A	Lipomed 100	14082019-A	1.414	71337.13	0.0994	2.008	246271.54	
2/11/2021	A	2228	202101C	1.415	43210.18	0.0610	2.009	245050.08	
2/11/2021	A	2229	202101C	1.415	43124.28	0.0608	2.009	245096.96	
2/11/2021	A	2230	202101C	1.415	43385.39	0.0607	2.009	247039.99	
2/11/2021	A	2231	202101C	1.415	43550.13	0.0611	2.008	246411.35	
2/11/2021	A	2232	202101C	1.414	43396.29	0.0610	2.008	246079.99	
2/11/2021	A	2233	202101C	1.414	42739.01	0.0608	2.008	243091.00	
2/11/2021	A	2216	202101C	1.414	43265.00	0.0611	2.008	244847.52	
2/11/2021	A	2217	202101C	1.414	43676.53	0.0608	2.008	248398.60	
2/11/2021	A	2218	202101C	1.415	43454.59	0.0606	2.009	247741.43	
2/11/2021	A	2219	202101C	1.415	43934.56	0.0605	2.009	250919.39	
2/11/2021	A	Lipomed 300	11092018-B	1.415	218776.43	0.3006	2.009	248036.42	

%CV = 0.93%

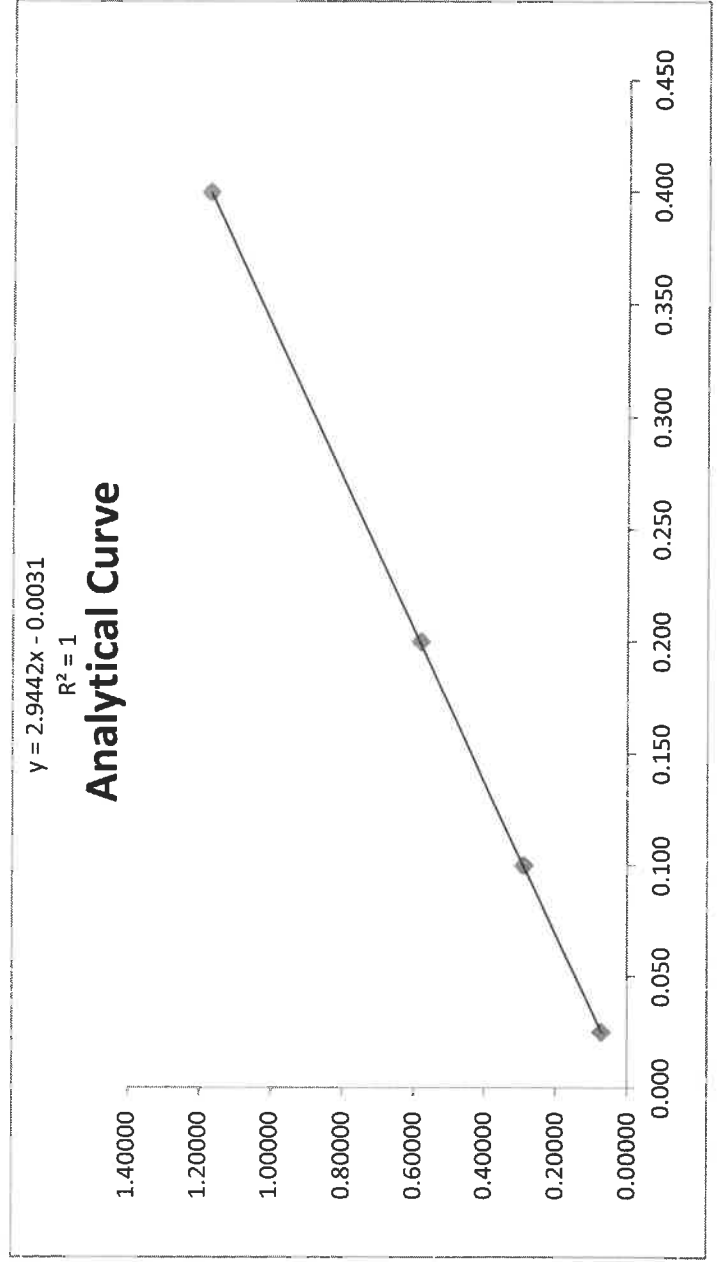
ALCOHOL ANALYSIS QC SUMMARY

Report Date	2/11/2021
Reviewer	Brett Kirkland

13K

RUN SUMMARY DATA				Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
2/11/2021	A	CER 025	FN09081706	1.415	17808.71	0.0253	2.009	245738.47	
2/11/2021	A	CER 100	FN02271802	1.415	70988.57	0.0995	2.009	244471.24	
2/11/2021	A	CER 200	FN06231704	1.415	142330.77	0.1993	2.009	243970.67	
2/11/2021	A	CER 400	FN05131606	1.414	288317.08	0.4004	2.009	245199.56	

Summary	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	2.9442	0.025	0.07247	0.02567	0.00067
Intercept	-0.0031	0.100	0.29038	0.09969	-0.00031
Standard Error	0.00243569	0.200	0.58339	0.19921	-0.00079
R-Squared	1.0000	0.400	1.17585	0.40043	0.00043



Source: Alcohol Countermeasure Systems, Inc.

Lot	202101C
Level	0.050g/210L
Manufacture Date	1/12/2021
Expiration Date	1/12/2023

Bottle	Result (g/100mL)
2228	0.0611
	0.0610
2229	0.0609
	0.0608
2230	0.0610
	0.0607
2231	0.0610
	0.0611
2232	0.0608
	0.0610
2233	0.0612
	0.0608
2216	0.0609
	0.0611
2217	0.0609
	0.0608
2218	0.0612
	0.0606
2219	0.0610
	0.0605

Mean	0.0609
Std. Dev.	0.0002
Min	0.0605
Max	0.0612