

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	349
10	350
11	352
12	353
13	354
14	356
15	357
16	358
17	359
18	360
19	Lipomed 100
20	349
21	350
22	352
23	353
24	354
25	356
26	357
27	358
28	359
29	360
30	Lipomed 300

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

Procedure Used	Eff. Date
ATP-TSOP v.5 section 4	Jan-22

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	012422 TG	na
Volatiles Mixture	052121 TG	na
Water (Fisher Scientific)	213960	06/2026
Cerilliant 25	FN09081706	5/2023
Cerilliant 100	FN05311902	10/2024
Cerilliant 200	FN05101903	09/2024
Cerilliant 400	FN10051906	12/2024
Lipomed 50	10072019-A	07/2024
Lipomed 100	14082019-A	08/2024
Lipomed 300	11092018-B	09/2023

Reference Solution

Level Tested:	0.05 g/ 210 L
Lot #:	202201C
Manufacture Date:	1/11/2022
Expiration Date	1/11/2024

Operator: 

Date: 

Alcohol Analysis QC Summary

*1/25/22*  
*TS*

<b>Report Date</b>	1/25/2022
<b>Reviewer</b>	TJ Graham

Run Summary Data			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
1/25/2022	A	Volatiles Mix	052121 TG	1.422	27800.16	0.0419	2.019	247639.13
1/25/2022	A	Blank	213960		0.00	0.0000	2.018	246963.52
1/25/2022	A	CER 25	FN09081706	1.422	17314.67	0.0260	2.019	251933.54
1/25/2022	A	CER 100	FN05311902	1.421	68997.42	0.1010	2.018	247102.93
1/25/2022	A	CER 200	FN05101903	1.421	137992.43	0.2022	2.018	245121.62
1/25/2022	A	CER 400	FN10051906	1.421	277142.02	0.4008	2.018	242223.34
1/25/2022	A	Blank	213960		0.00	0.0000	2.017	247661.55
1/25/2022	A	Lipomed 50	10072019-A	1.421	34346.20	0.0508	2.018	246369.88
1/25/2022	A	349	202201C	1.421	41535.94	0.0609	2.018	246665.33
1/25/2022	A	350	202201C	1.422	41594.40	0.0609	2.019	247346.39
1/25/2022	A	352	202201C	1.421	41890.63	0.0607	2.018	249734.55
1/25/2022	A	353	202201C	1.421	41940.71	0.0607	2.018	250190.72
1/25/2022	A	354	202201C	1.422	41810.01	0.0609	2.019	248615.52
1/25/2022	A	356	202201C	1.422	41543.75	0.0608	2.018	247186.14
1/25/2022	A	357	202201C	1.422	41428.12	0.0612	2.018	245071.40
1/25/2022	A	358	202201C	1.422	41665.93	0.0609	2.018	247454.25
1/25/2022	A	359	202201C	1.422	41528.91	0.0611	2.019	246094.98
1/25/2022	A	360	202201C	1.419	41558.38	0.0609	2.016	247105.93
1/25/2022	A	Lipomed 100	14082019-A	1.421	69653.06	0.0996	2.018	249249.72
1/25/2022	A	349	202201C	1.421	41941.63	0.0607	2.018	250231.91
1/25/2022	A	350	202201C	1.421	41752.90	0.0608	2.018	248608.79
1/25/2022	A	352	202201C	1.421	41416.80	0.0607	2.018	247003.19
1/25/2022	A	353	202201C	1.421	41772.54	0.0607	2.018	248939.71
1/25/2022	A	354	202201C	1.421	41939.32	0.0608	2.018	249486.38
1/25/2022	A	356	202201C	1.420	42157.79	0.0606	2.017	251606.60
1/25/2022	A	357	202201C	1.421	41697.41	0.0608	2.018	248248.91
1/25/2022	A	358	202201C	1.421	42005.03	0.0605	2.018	251369.34
1/25/2022	A	359	202201C	1.420	42263.85	0.0610	2.017	250942.38
1/25/2022	A	360	202201C	1.419	42121.39	0.0607	2.016	251354.36
1/25/2022	A	Lipomed 300	11092018-B	1.419	212427.30	0.2991	2.016	249297.86

%CV = 0.89%

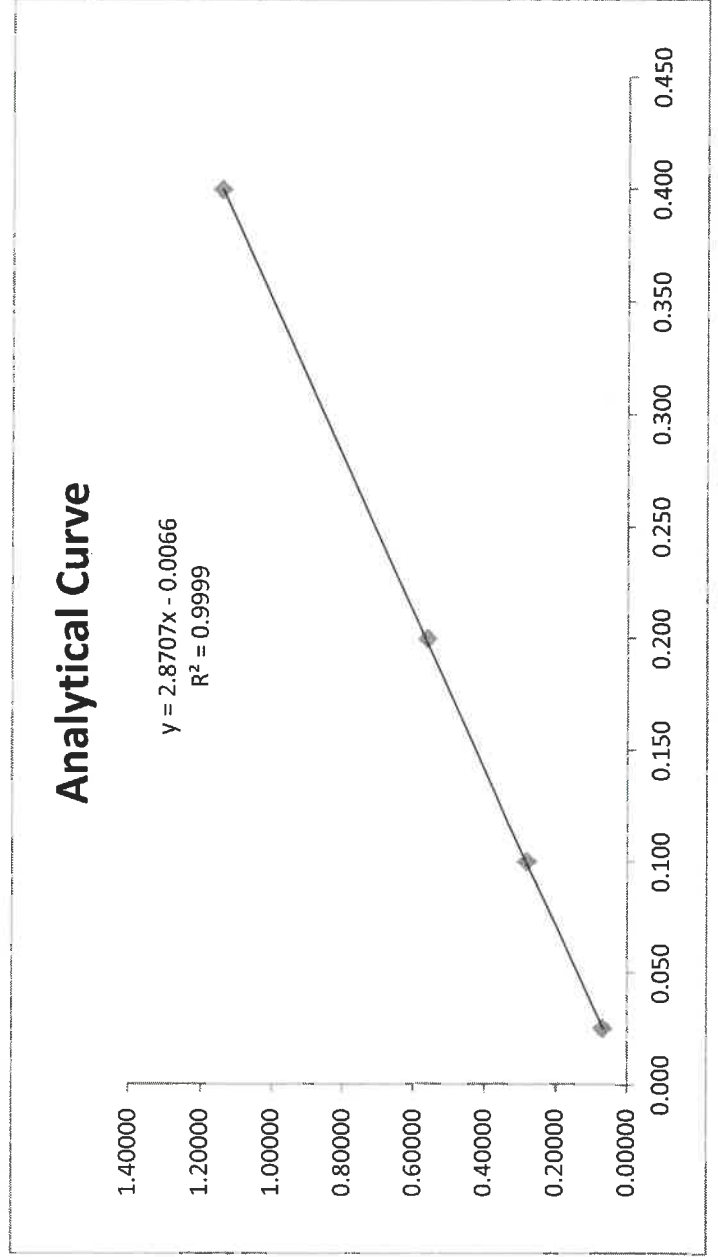
ALCOHOL ANALYSIS QC SUMMARY

1/25/22  
TJ

Report Date	1/25/2022
Reviewer	TJ Graham

RUN SUMMARY DATA				Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
1/25/2022	A	CER 25	FN09081706	1.422	17314.67	0.0260	2.019	251933.54	
1/25/2022	A	CER 100	FN05311902	1.421	68997.42	0.1010	2.018	247102.93	
1/25/2022	A	CER 200	FN05101903	1.421	137992.43	0.2022	2.018	245121.62	
1/25/2022	A	CER 400	FN10051906	1.421	277142.02	0.4008	2.018	242223.34	

Summary	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8707	0.025	0.06873	0.02622	0.00122
Intercept	-0.0066	0.100	0.27923	0.09955	-0.00045
Standard Error	0.004548474	0.200	0.56295	0.19838	-0.00162
R-Squared	0.9999	0.400	1.14416	0.40084	0.00084



Source: Alcohol Countermeasure Systems, Inc.

Lot	202201C
Level	0.05 g/ 210 L
Manufacture Date	1/11/2022
Expiration Date	1/11/2024

Bottle	Result (g/100mL)
349	0.0609
	0.0607
350	0.0609
	0.0608
352	0.0607
	0.0607
353	0.0607
	0.0607
354	0.0609
	0.0608
356	0.0608
	0.0606
357	0.0612
	0.0608
358	0.0609
	0.0605
359	0.0611
	0.0610
360	0.0609
	0.0607

Mean	0.0608
Std. Dev.	0.0002
Min	0.0605
Max	0.0612

1/25/22  
JG