

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	2222
10	2223
11	2225
12	2226
13	2227
14	2240
15	2242
16	2243
17	2244
18	2245
19	Lipomed 100
20	2222
21	2223
22	2225
23	2226
24	2227
25	2240
26	2242
27	2243
28	2244
29	2245
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	✓

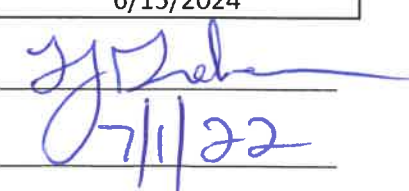
Procedure Used	Eff. Date
ATP-TSOP v.6 section 4	Feb-22

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	063022 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:	0.20 g/ 210 L
Lot #:	202206C
Manufacture Date:	6/15/2022
Expiration Date	6/15/2024

Operator: 

Date: 7/1/22

Alcohol Analysis QC Summary

Report Date	7/1/2022
Reviewer	TJ Graham

7/1/22
JG

Run Summary Data				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
7/1/2022	A	Volatiles Mix	052121 TG	1.402	25403.10	0.0411	1.991	220767.47
7/1/2022	A	Blank	213960		0.00	0.0000	1.991	226893.15
7/1/2022	A	CER 25	FN09081706	1.402	15720.72	0.0259	1.991	224730.85
7/1/2022	A	CER 100	FN05311902	1.402	64783.04	0.0996	1.991	227865.83
7/1/2022	A	CER 200	FN05101903	1.403	126920.04	0.1986	1.992	221198.26
7/1/2022	A	CER 400	FN10051906	1.402	259754.41	0.4006	1.991	223615.57
7/1/2022	A	Blank	213960		0.00	0.0000	1.992	222562.10
7/1/2022	A	Lipomed 50	10072019-A	1.403	31618.74	0.0504	1.992	223862.53
7/1/2022	A	2222	202206C	1.402	151654.12	0.2417	1.991	217059.26
7/1/2022	A	2223	202206C	1.402	152731.35	0.2404	1.991	219799.15
7/1/2022	A	2225	202206C	1.402	155333.26	0.2406	1.992	223348.64
7/1/2022	A	2226	202206C	1.403	154311.31	0.2405	1.992	222026.61
7/1/2022	A	2227	202206C	1.402	156321.13	0.2405	1.991	224869.59
7/1/2022	A	2240	202206C	1.402	154944.55	0.2403	1.991	223077.55
7/1/2022	A	2242	202206C	1.402	155775.30	0.2401	1.991	224501.37
7/1/2022	A	2243	202206C	1.402	156004.45	0.2404	1.991	224506.15
7/1/2022	A	2244	202206C	1.402	155582.16	0.2404	1.991	223907.20
7/1/2022	A	2245	202206C	1.402	155969.54	0.2406	1.991	224334.16
7/1/2022	A	Lipomed 100	14082019-A	1.403	63899.78	0.0998	1.992	224100.51
7/1/2022	A	2222	202206C	1.402	153875.46	0.2408	1.992	221100.15
7/1/2022	A	2223	202206C	1.402	156492.41	0.2412	1.991	224496.10
7/1/2022	A	2225	202206C	1.402	153444.00	0.2418	1.991	219612.15
7/1/2022	A	2226	202206C	1.402	154600.22	0.2404	1.992	222565.59
7/1/2022	A	2227	202206C	1.402	154398.55	0.2406	1.991	222004.73
7/1/2022	A	2240	202206C	1.402	156743.32	0.2403	1.992	225664.54
7/1/2022	A	2242	202206C	1.402	154739.88	0.2402	1.992	222884.58
7/1/2022	A	2243	202206C	1.402	156882.86	0.2405	1.991	225730.68
7/1/2022	A	2244	202206C	1.402	158145.96	0.2388	1.991	229122.84
7/1/2022	A	2245	202206C	1.403	157235.72	0.2395	1.992	227127.79
7/1/2022	A	Lipomed 300	11092018-B	1.403	194571.76	0.2998	1.992	224222.17

%CV = 1.14%

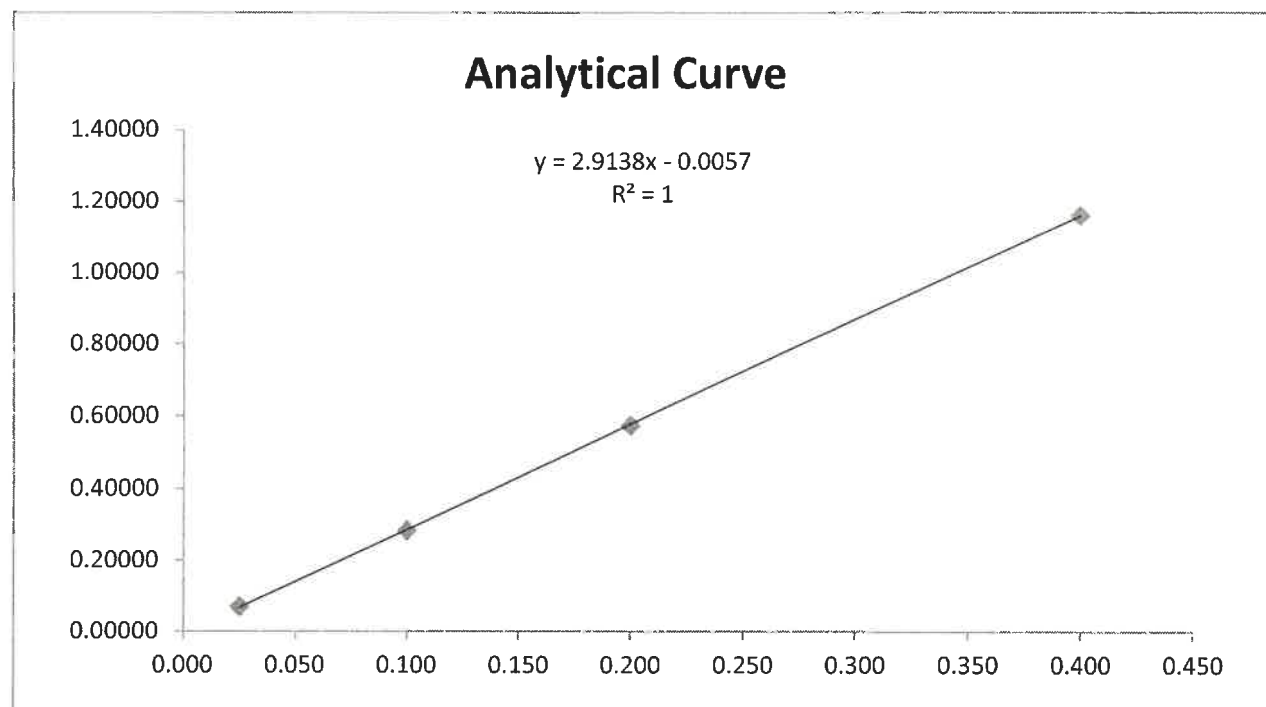
ALCOHOL ANALYSIS QC SUMMARY

Report Date	7/1/2022
Reviewer	TJ Graham

7/1/22
JG

RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
7/1/2022	A	CER 25	FN09081706	1.402	15720.72	0.0259	1.991	224730.85
7/1/2022	A	CER 100	FN05311902	1.402	64783.04	0.0996	1.991	227865.83
7/1/2022	A	CER 200	FN05101903	1.403	126920.04	0.1986	1.992	221198.26
7/1/2022	A	CER 400	FN10051906	1.402	259754.41	0.4006	1.991	223615.57

Summary		Standard	g/dL	Ratio	Calc.	Diff
		Blank	0.000	0.00000	0.00000	0.00000
Slope	2.9138	CER 25	0.025	0.06995	0.02597	0.00097
Intercept	-0.0057	CER 100	0.100	0.28430	0.09953	-0.00047
Standard Error	0.003444053	CER 200	0.200	0.57378	0.19888	-0.00112
R-Squared	1.0000	CER 400	0.400	1.16161	0.40062	0.00062



Source:	Alcohol Countermeasure Systems, Inc.
---------	--------------------------------------

Lot	202206C
Level	0.20 g/ 210 L
Manufacture Date	6/15/2022
Expiration Date	6/15/2024

Bottle	Result (g/100mL)
2222	0.2417
	0.2408
2223	0.2404
	0.2412
2225	0.2406
	0.2418
2226	0.2405
	0.2404
2227	0.2405
	0.2406
2240	0.2403
	0.2403
2242	0.2401
	0.2402
2243	0.2404
	0.2405
2244	0.2404
	0.2388
2245	0.2406
	0.2395

Mean	0.2405
Std. Dev.	0.0006
Min	0.2388
Max	0.2418

7/1/22
JD