

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	2251
10	2253
11	2254
12	2255
13	2256
14	2257
15	2258
16	2259
17	2260
18	2262
19	Lipomed 100
20	2251
21	2253
22	2254
23	2255
24	2256
25	2257
26	2258
27	2259
28	2260
29	2262
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:	0.08 g/ 210 L
Lot #:	202206B
Manufacture Date:	6/14/2022
Expiration Date	6/14/2024

Operator: J. J. J.

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	25198.78	0.0407	1.991	221656.98
7/1/2022	A	Blank	213960		0.00	0.0000	1.991	223518.45
7/1/2022	A	CER 25	FN09081706	1.402	15592.80	0.0260	1.991	219839.41
7/1/2022	A	CER 100	FN05311902	1.402	62525.69	0.0998	1.991	218246.58
7/1/2022	A	CER 200	FN05101903	1.402	126568.07	0.1983	1.991	220832.20
7/1/2022	A	CER 400	FN10051906	1.401	256210.51	0.4008	1.991	220133.02
7/1/2022	A	Blank	213960		0.00	0.0000	1.991	220398.63
7/1/2022	A	Lipomed 50	10072019-A	1.402	31379.42	0.0505	1.991	220459.70
7/1/2022	A	2251	202206B	1.402	60741.31	0.0958	1.991	221298.95
7/1/2022	A	2253	202206B	1.402	60538.64	0.0964	1.991	219154.31
7/1/2022	A	2254	202206B	1.402	60545.27	0.0960	1.991	220181.78
7/1/2022	A	2255	202206B	1.402	60860.70	0.0960	1.990	221351.48
7/1/2022	A	2256	202206B	1.402	61846.51	0.0961	1.991	224606.29
7/1/2022	A	2257	202206B	1.402	60698.16	0.0958	1.991	221274.37
7/1/2022	A	2258	202206B	1.402	61096.58	0.0960	1.991	222039.96
7/1/2022	A	2259	202206B	1.402	60752.84	0.0957	1.991	221476.13
7/1/2022	A	2260	202206B	1.402	61279.61	0.0958	1.991	223229.97
7/1/2022	A	2262	202206B	1.403	61350.96	0.0959	1.992	223397.37
7/1/2022	A	Lipomed 100	14082019-A	1.402	62261.90	0.0995	1.991	218303.61
7/1/2022	A	2251	202206B	1.402	61149.73	0.0955	1.991	223506.95
7/1/2022	A	2253	202206B	1.402	59911.37	0.0964	1.991	216796.52
7/1/2022	A	2254	202206B	1.402	61109.29	0.0962	1.991	221619.43
7/1/2022	A	2255	202206B	1.403	60604.63	0.0963	1.992	219666.02
7/1/2022	A	2256	202206B	1.402	60988.67	0.0960	1.991	221670.55
7/1/2022	A	2257	202206B	1.402	60991.37	0.0954	1.991	223184.72
7/1/2022	A	2258	202206B	1.402	61555.73	0.0956	1.991	224834.88
7/1/2022	A	2259	202206B	1.402	60866.11	0.0958	1.991	221785.89
7/1/2022	A	2260	202206B	1.403	62656.51	0.0958	1.991	228358.43
7/1/2022	A	2262	202206B	1.402	62702.24	0.0960	1.991	228035.43
7/1/2022	A	Lipomed 300	11092018-B	1.402	194706.42	0.2975	1.992	225712.48

%CV = 1.19%

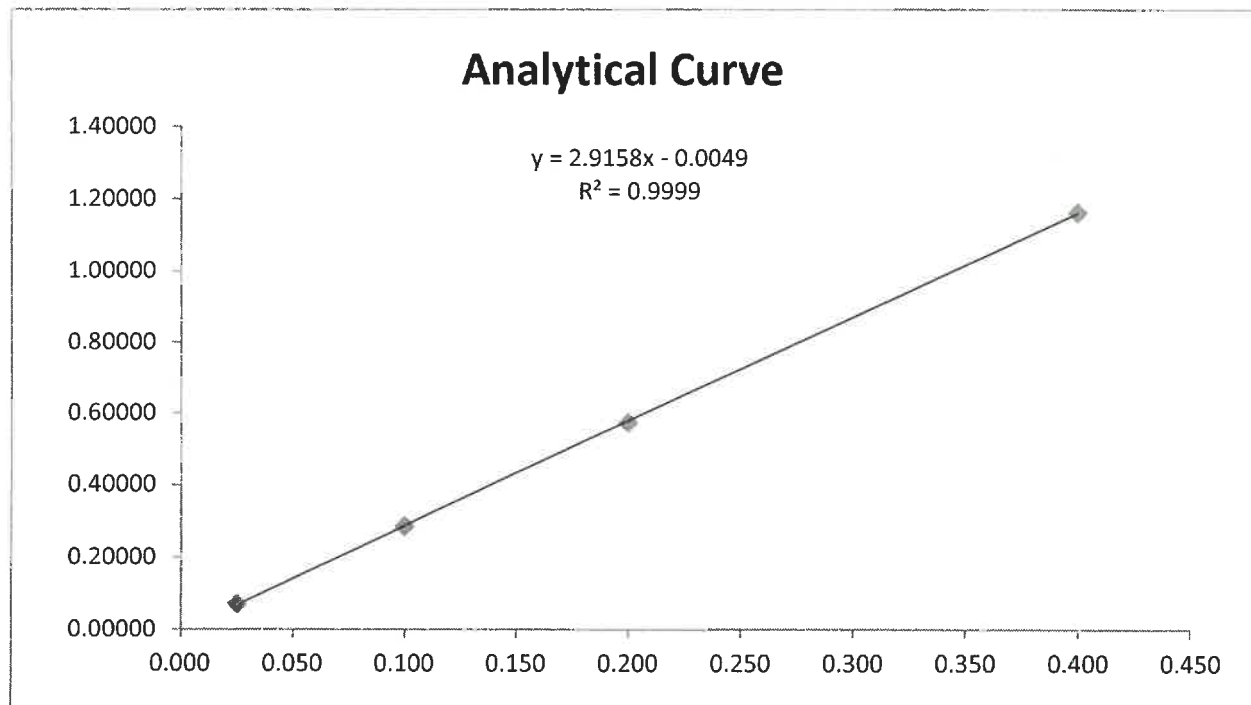
ALCOHOL ANALYSIS QC SUMMARY

Report Date	7/1/2022
Reviewer	TJ Graham

7/1/22


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	15592.80	0.0260	1.991	219839.41
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7/1/2022	A	CER 200	FN05101903	1.402	126568.07	0.1983	1.991	220832.20
7/1/2022	A	CER 400	FN10051906	1.401	256210.51	0.4008	1.991	220133.02

Summary		Standard	g/dL	Ratio	Calc.	Diff
		Blank	0.000	0.00000	0.00000	0.00000
Slope	2.9158	CER 25	0.025	0.07093	0.02600	0.00100
Intercept	-0.0049	CER 100	0.100	0.28649	0.09993	-0.00007
Standard Error	0.00452413	CER 200	0.200	0.57314	0.19824	-0.00176
R-Squared	0.9999	CER 400	0.400	1.16389	0.40084	0.00084



Source:	Alcohol Countermeasure Systems, Inc.
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Lot	202206B
Level	0.08 g/ 210 L
Manufacture Date	6/14/2022
Expiration Date	6/14/2024

Bottle	Result (g/100mL)
2251	0.0958
	0.0955
2253	0.0964
	0.0964
2254	0.0960
	0.0962
2255	0.0960
	0.0963
2256	0.0961
	0.0960
2257	0.0958
	0.0954
2258	0.0960
	0.0956
2259	0.0957
	0.0958
2260	0.0958
	0.0958
2262	0.0959
	0.0960

Mean	0.0959
Std. Dev.	0.0003
Min	0.0954
Max	0.0964

7/1/22
JL