

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	2197
10	2198
11	2199
12	2200
13	2202
14	2215
15	2216
16	2217
17	2219
18	2220
19	Lipomed 100
20	2197
21	2198
22	2199
23	2200
24	2202
25	2215
26	2216
27	2217
28	2219
29	2220
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.4 section 4	Jan-21

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	070121 TG	na
Volatiles Mixture	052121 TG	na
Water (Fisher Scientific)	167428	11/2021
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 #:	202106B
Manufacture Date:	6/22/2021
Expiration Date	6/22/2023

Operator: J. Deha  
 Date: 7/2/21

Alcohol Analysis QC Summary

<b>Report Date</b>	7/2/2021
<b>Reviewer</b>	TJ Graham

7/2/21  
TJG

Run Summary Data			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
7/2/2021	A	Volatiles Mix	052121 TG	1.420	29398.87	0.0402	2.016	260745.90
7/2/2021	A	Blank	167428		0.00	0.0000	2.016	258724.98
7/2/2021	A	CER 25	FN09081706	1.419	18188.08	0.0251	2.016	262219.13
7/2/2021	A	CER 100	FN05311902	1.419	72440.89	0.0993	2.016	258674.30
7/2/2021	A	CER 200	FN05101903	1.419	145105.17	0.1979	2.016	259347.08
7/2/2021	A	CER 400	FN10051906	1.419	294154.84	0.4004	2.016	260724.12
7/2/2021	A	Blank	167428		0.00	0.0000	2.016	259807.58
7/2/2021	A	Lipomed 50	10072019-A	1.420	36231.29	0.0502	2.017	260285.88
7/2/2021	A	2197	202106B	1.419	177745.03	0.2412	2.016	261985.90
7/2/2021	A	2198	202106B	1.419	178768.40	0.2410	2.016	263693.97
7/2/2021	A	2199	202106B	1.420	177091.95	0.2420	2.016	260159.68
7/2/2021	A	2200	202106B	1.420	178809.61	0.2413	2.016	263439.26
7/2/2021	A	2202	202106B	1.420	174901.90	0.2414	2.017	257519.76
7/2/2021	A	2215	202106B	1.419	177431.05	0.2403	2.016	262435.86
7/2/2021	A	2216	202106B	1.419	176699.07	0.2411	2.016	260553.43
7/2/2021	A	2217	202106B	1.420	177732.19	0.2408	2.016	262381.98
7/2/2021	A	2219	202106B	1.420	177488.52	0.2407	2.016	262116.25
7/2/2021	A	2220	202106B	1.419	177319.97	0.2411	2.015	261380.24
7/2/2021	A	Lipomed 100	14082019-A	1.420	73053.05	0.0998	2.016	261544.59
7/2/2021	A	2197	202106B	1.419	178610.82	0.2411	2.016	263378.46
7/2/2021	A	2198	202106B	1.420	176930.42	0.2409	2.016	261029.39
7/2/2021	A	2199	202106B	1.419	178365.90	0.2409	2.016	263191.94
7/2/2021	A	2200	202106B	1.420	176786.04	0.2414	2.017	260319.52
7/2/2021	A	2202	202106B	1.420	178391.79	0.2411	2.016	263028.29
7/2/2021	A	2215	202106B	1.420	176447.78	0.2414	2.017	259856.03
7/2/2021	A	2216	202106B	1.420	176356.24	0.2406	2.017	260535.23
7/2/2021	A	2217	202106B	1.419	177216.76	0.2412	2.016	261194.17
7/2/2021	A	2219	202106B	1.421	179667.56	0.2406	2.017	265458.77
7/2/2021	A	2220	202106B	1.421	180118.10	0.2407	2.017	265948.97
7/2/2021	A	Lipomed 300	11092018-B	1.421	222892.15	0.3003	2.018	263667.61

%CV = 0.74%

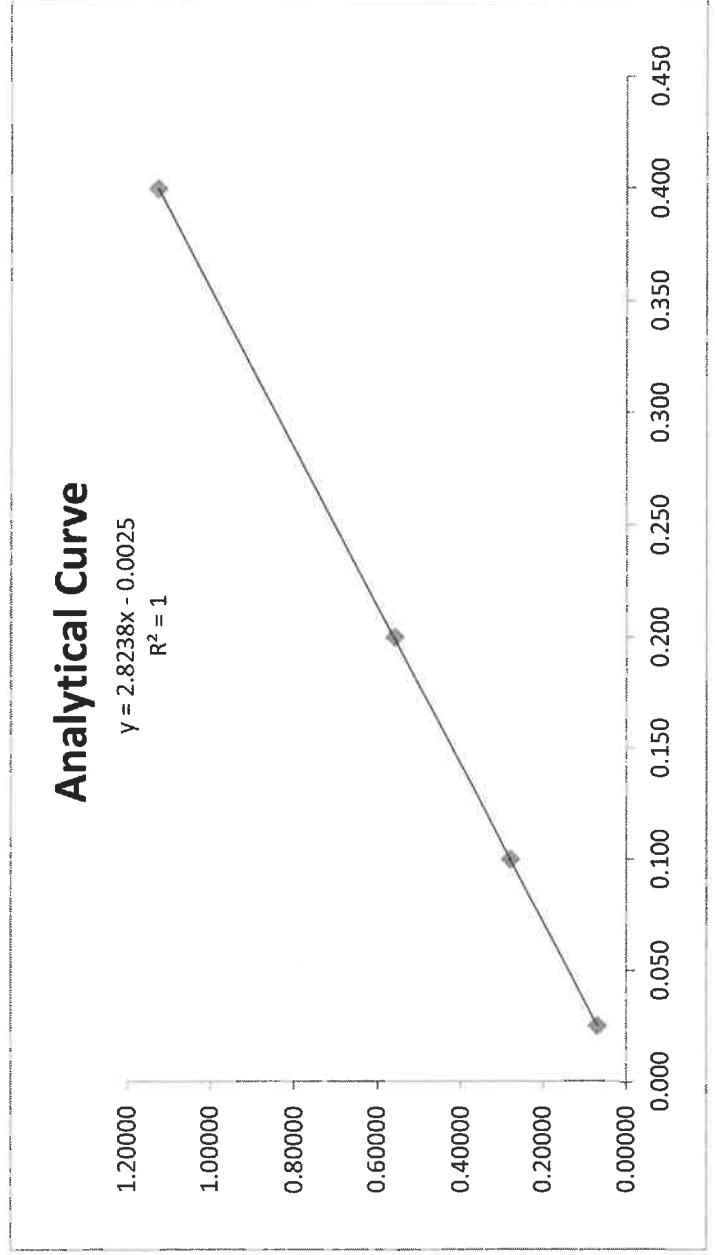
ALCOHOL ANALYSIS QC SUMMARY

7/2/21  
JGD

Report Date	7/2/2021
Reviewer	TJ Graham

RUN SUMMARY DATA				Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
7/2/2021	A	CER 25	FN09081706	1.419	18188.08	0.0251	2.016	262219.13	
7/2/2021	A	CER 100	FN05311902	1.419	72440.89	0.0993	2.016	258674.30	
7/2/2021	A	CER 200	FN05101903	1.419	145105.17	0.1979	2.016	259347.08	
7/2/2021	A	CER 400	FN10051906	1.419	294154.84	0.4004	2.016	260724.12	

Summary	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8238	0.025	0.06936	0.02546	0.00046
Intercept	-0.0025	0.100	0.28005	0.10007	0.00007
Standard Error	0.002311207	0.200	0.55950	0.19903	-0.00097
R-Squared	1.0000	0.400	1.12822	0.40044	0.00044



Source: Alcohol Countermeasure Systems, Inc.

Lot	202106B
Level	0.20 g/ 210 L
Manufacture Date	6/22/2021
Expiration Date	6/22/2023

Bottle	Result (g/100mL)
2197	0.2412
	0.2411
2198	0.2410
	0.2409
2199	0.2420
	0.2409
2200	0.2413
	0.2414
2202	0.2414
	0.2411
2215	0.2403
	0.2414
2216	0.2411
	0.2406
2217	0.2408
	0.2412
2219	0.2407
	0.2406
2220	0.2411
	0.2407

Mean	0.2410
Std. Dev.	0.0004
Min	0.2403
Max	0.2420

7/2/21  
JES