

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	2227
10	2228
11	2229
12	2231
13	2232
14	2239
15	2241
16	2242
17	2243
18	2244
19	Lipomed 100
20	2227
21	2228
22	2229
23	2231
24	2232
25	2239
26	2241
27	2242
28	2243
29	2244
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	✓

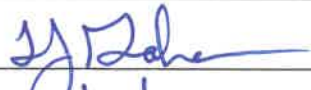
Procedure Used	Eff. Date
ATP-TSOP v.4 section 4	Jan-21

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	082321 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:	0.08 g/ 210 L
Lot #:	202108D
Manufacture Date:	8/17/2021
Expiration Date	8/17/2023

Operator: 
 Date: 8/24/21

Alcohol Analysis QC Summary

8/25/21


Report Date	8/24/2012
Reviewer	TJ Graham

Run Summary Data			Ethanol				n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
8/24/2021	A	Volatiles Mix	052121 TG	1.421	29068.50	0.0413	2.018	254544.37	
8/24/2021	A	Blank	167428		0.00	0.0000	2.016	254921.82	
8/24/2021	A	CER 25	FN09081706	1.420	17745.86	0.0256	2.016	252780.96	
8/24/2021	A	CER 100	FN05311902	1.421	71338.55	0.1001	2.018	254015.26	
8/24/2021	A	CER 200	FN05101903	1.421	143285.39	0.1999	2.018	254462.67	
8/24/2021	A	CER 400	FN10051906	1.421	290852.44	0.4005	2.018	256118.00	
8/24/2021	A	Blank	167428		0.00	0.0000	2.017	255692.56	
8/24/2021	A	Lipomed 50	10072019-A	1.422	35650.91	0.0504	2.018	253658.76	
8/24/2021	A	2227	202108D	1.421	69509.53	0.0971	2.018	254337.59	
8/24/2021	A	2228	202108D	1.421	69587.43	0.0970	2.017	254897.55	
8/24/2021	A	2229	202108D	1.421	69957.10	0.0973	2.018	255428.03	
8/24/2021	A	2231	202108D	1.421	68830.27	0.0968	2.018	252736.85	
8/24/2021	A	2232	202108D	1.421	70121.20	0.0968	2.018	257384.41	
8/24/2021	A	2239	202108D	1.421	68671.18	0.0967	2.018	252402.75	
8/24/2021	A	2241	202108D	1.421	68668.16	0.0967	2.018	252435.30	
8/24/2021	A	2242	202108D	1.419	69703.58	0.0968	2.016	255856.32	
8/24/2021	A	2243	202108D	1.421	70561.72	0.0978	2.018	256468.37	
8/24/2021	A	2244	202108D	1.421	69489.82	0.0970	2.018	254616.15	
8/24/2021	A	Lipomed 100	14082019-A	1.421	71603.89	0.0995	2.018	255625.87	
8/24/2021	A	2227	202108D	1.421	69186.17	0.0969	2.018	253709.18	
8/24/2021	A	2228	202108D	1.421	69765.19	0.0969	2.018	255937.24	
8/24/2021	A	2229	202108D	1.422	69637.31	0.0967	2.018	256029.75	
8/24/2021	A	2231	202108D	1.420	69984.11	0.0969	2.016	256556.16	
8/24/2021	A	2232	202108D	1.422	69580.03	0.0968	2.018	255382.17	
8/24/2021	A	2239	202108D	1.421	69507.91	0.0967	2.017	255562.85	
8/24/2021	A	2241	202108D	1.422	69214.87	0.0966	2.018	254552.03	
8/24/2021	A	2242	202108D	1.422	69756.19	0.0971	2.018	255392.54	
8/24/2021	A	2243	202108D	1.420	70698.36	0.0970	2.016	259000.42	
8/24/2021	A	2244	202108D	1.420	70760.25	0.0963	2.016	261140.32	
8/24/2021	A	Lipomed 300	11092018-B	1.419	217791.48	0.2994	2.016	256737.76	

%CV = 0.73%

ALCOHOL ANALYSIS QC SUMMARY

Report Date	8/24/2012
Reviewer	TJ Graham

8/23/12
TJ

RUN SUMMARY DATA

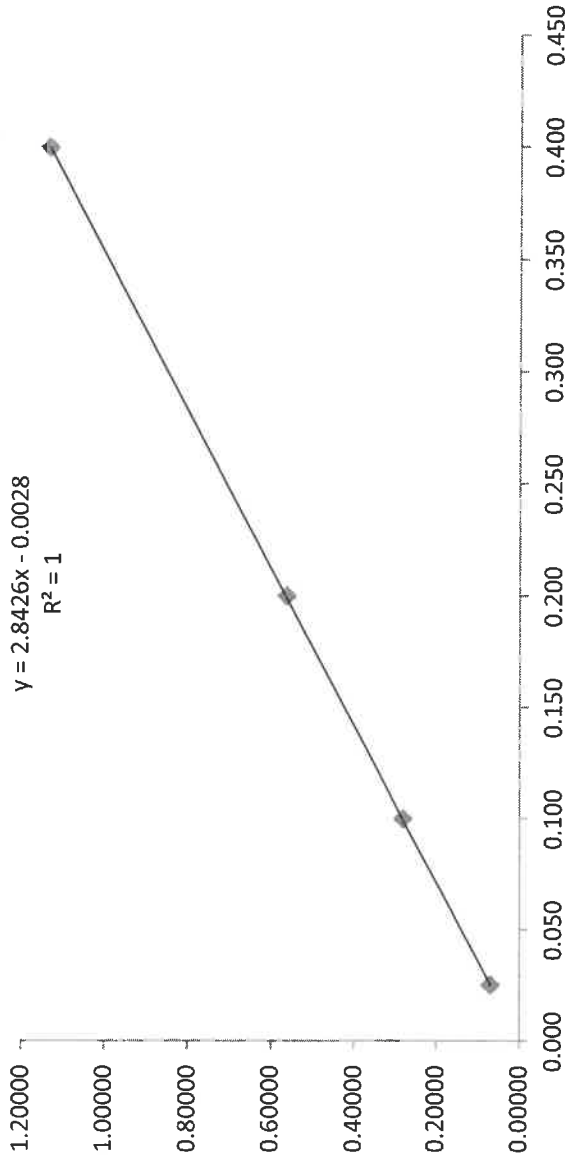
Run Date	Channel	Sample	Lot	Ethanol			n-Propanol	
				RT	Area	Conc.	RT	Area
8/24/2021	A	CER 25	FN09081706	1.420	17745.86	0.0256	2.016	252780.96
8/24/2021	A	CER 100	FN05311902	1.421	71338.55	0.1001	2.018	254015.26
8/24/2021	A	CER 200	FN05101903	1.421	143285.39	0.1999	2.018	254462.67
8/24/2021	A	CER 400	FN10051906	1.421	290852.44	0.4005	2.018	256118.00

Summary

	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8426	0.025	0.07020	0.02568	0.00068
Intercept	-0.0028	0.100	0.28084	0.09978	-0.00022
Standard Error	0.00254469	0.200	0.56309	0.19907	-0.00093
R-Squared	1.0000	0.400	1.13562	0.40048	0.00048

Analytical Curve

$y = 2.8426x - 0.0028$
 $R^2 = 1$



Source: Alcohol Countermeasure Systems, Inc.

Lot	202108D
Level	0.08 g/ 210 L
Manufacture Date	8/17/2021
Expiration Date	8/17/2023

Bottle	Result (g/100mL)
2227	0.0971
	0.0969
2228	0.0970
	0.0969
2229	0.0973
	0.0967
2231	0.0968
	0.0969
2232	0.0968
	0.0968
2239	0.0967
	0.0967
2241	0.0967
	0.0966
2242	0.0968
	0.0971
2243	0.0978
	0.0970
2244	0.0970
	0.0963

Mean	0.0969
Std. Dev.	0.0003
Min	0.0963
Max	0.0978

8/25/21
JE