

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	346
10	343
11	344
12	345
13	347
14	348
15	334
16	331
17	335
18	332
19	Lipomed 100
20	346
21	343
22	344
23	345
24	347
25	348
26	334
27	331
28	335
29	332
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.1 section 4	Oct-17

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	110420BK	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	21-Nov
Cerilliant 025	FN09081706	5/2023
Cerilliant 100	FN02271802	4/2023
Cerilliant 200	FN06231704	8/2022
Cerilliant 400	FN05131606	6/2021
Lipomed 50	10072019-A	7/2024
Lipomed 100	14082019-A	8/2024
Lipomed 300	11092018-B	9/2023

Reference Solution

Level Tested:	0.200g/210L
Lot #:	202010D
Manufacture Date:	10/6/2020
Expiration Date	10/6/2022

Operator: Brett Kirkland *BK*

Date: 11/4/2020

Alcohol Analysis QC Summary

Report Date	11/4/2020
Reviewer	Brett Kirkland

Run Summary Data			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
11/4/2020	A	Volatiles Mix	041513 DKR	1.415	26003.50	0.0371	2.009	261447.51
11/4/2020	A	Blank	167428		0.00	0.0000	2.009	258711.81
11/4/2020	A	CER 025	FN09081706	1.416	17537.21	0.0252	2.009	261523.96
11/4/2020	A	CER 100	FN02271802	1.415	70030.42	0.1000	2.008	258464.59
11/4/2020	A	CER 200	FN06231704	1.415	139715.38	0.2005	2.009	255705.67
11/4/2020	A	CER 400	FN05131606	1.415	283950.64	0.4003	2.009	258131.98
11/4/2020	A	Blank	167428		0.00	0.0000	2.009	258660.63
11/4/2020	A	Lipomed 50	10072019-A	1.415	34856.04	0.0503	2.009	257960.04
11/4/2020	A	346	202010D	1.415	170268.76	0.2402	2.009	258486.53
11/4/2020	A	343	202010D	1.415	170197.91	0.2401	2.009	258527.14
11/4/2020	A	344	202010D	1.415	170023.06	0.2405	2.009	257855.30
11/4/2020	A	345	202010D	1.415	172032.14	0.2399	2.009	261514.08
11/4/2020	A	347	202010D	1.415	170638.12	0.2410	2.009	258220.41
11/4/2020	A	348	202010D	1.415	169176.21	0.2408	2.009	256249.81
11/4/2020	A	334	202010D	1.415	171029.39	0.2406	2.009	259197.83
11/4/2020	A	331	202010D	1.415	170881.30	0.2407	2.009	258889.78
11/4/2020	A	335	202010D	1.415	169814.45	0.2408	2.009	257202.11
11/4/2020	A	332	202010D	1.415	169454.54	0.2414	2.009	255989.39
11/4/2020	A	Lipomed 100	14082019-A	1.415	69729.26	0.0995	2.009	257452.68
11/4/2020	A	346	202010D	1.415	171665.28	0.2407	2.009	260059.17
11/4/2020	A	343	202010D	1.415	170376.63	0.2402	2.009	258688.01
11/4/2020	A	344	202010D	1.415	170281.52	0.2398	2.009	259019.54
11/4/2020	A	345	202010D	1.415	169961.56	0.2394	2.009	258875.52
11/4/2020	A	347	202010D	1.415	172067.85	0.2400	2.009	261456.13
11/4/2020	A	348	202010D	1.415	170959.77	0.2400	2.009	259774.40
11/4/2020	A	334	202010D	1.415	169851.29	0.2403	2.009	257805.76
11/4/2020	A	331	202010D	1.415	170501.10	0.2398	2.009	259333.19
11/4/2020	A	335	202010D	1.415	172170.54	0.2400	2.009	261683.33
11/4/2020	A	332	202010D	1.413	172526.80	0.2389	2.007	263335.41
11/4/2020	A	Lipomed 300	11092018-B	1.415	217536.16	0.2978	2.009	266145.07

%CV = 0.85%

ALCOHOL ANALYSIS QC SUMMARY

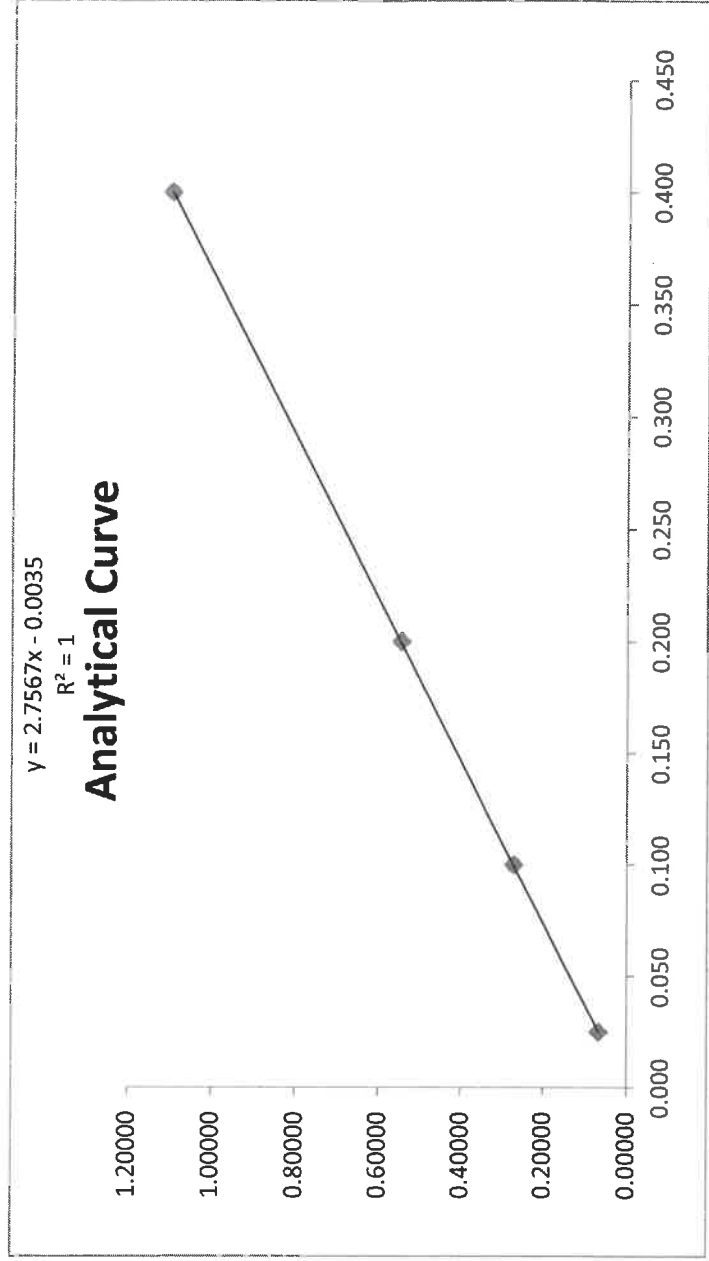
Report Date	11/4/2020
Reviewer	Brett Kirkland

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RUN SUMMARY DATA

			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
11/4/2020	A	CER 025	FN09081706	1.416	17537.21	0.0252	2.009	261523.96
11/4/2020	A	CER 100	FN02271802	1.415	70030.42	0.1000	2.008	258464.59
11/4/2020	A	CER 200	FN06231704	1.415	139715.38	0.2005	2.009	255705.67
11/4/2020	A	CER 400	FN05131606	1.415	283950.64	0.4003	2.009	258131.98

Summary		Standard	g/dL	Ratio	Calc.	Diff
Slope		Blank	0.000	0.00000	0.00000	0.00000
	2.7567	CER 025	0.025	0.06706	0.02561	0.00061
Intercept	-0.0035	CER 100	0.100	0.27095	0.09957	-0.00043
Standard Error	0.001868309	CER 200	0.200	0.54639	0.19949	-0.00051
R-Squared	1.0000	CER 400	0.400	1.10002	0.40032	0.00032



Source:	Alcohol Countermeasure Systems, Inc.
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Lot	202010D
Level	0.200g/210L
Manufacture Date	10/6/2020
Expiration Date	10/6/2022

Bottle	Result (g/100mL)
346	0.2402
	0.2407
343	0.2401
	0.2402
344	0.2405
	0.2398
345	0.2399
	0.2394
347	0.2410
	0.2400
348	0.2408
	0.2400
334	0.2406
	0.2403
331	0.2407
	0.2398
335	0.2408
	0.2400
332	0.2414
	0.2389

Mean	0.2403
Std. Dev.	0.0006
Min	0.2389
Max	0.2414