

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	1789
10	1790
11	1791
12	1793
13	1794
14	1795
15	1797
16	1798
17	1799
18	1800
19	Lipomed 100
20	1789
21	1790
22	1791
23	1793
24	1794
25	1795
26	1797
27	1798
28	1799
29	1800
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.2 section 4	Dec-18

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	081919 TG	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	11/2021
Cerilliant 25	FN09081706	5/2023
Cerilliant 100	FN02271802	4/2023
Cerilliant 200	FN06231704	8/2022
Cerilliant 400	FN05131606	6/2021
Lipomed 50	08012015-B	1/2020
Lipomed 100	06072017-A_1	7/2022
Lipomed 300	18052015-A/1	5/2020

Reference Solution

Level Tested:	0.08 g/ 210 L
Lot #:	201908B
Manufacture Date:	8/7/2019
Expiration Date	8/7/2021

Operator: _____

Date: _____

J. Rabe
8/24/19

Alcohol Analysis QC Summary

Report Date	8/24/2019
Reviewer	TJ Graham

Run Summary Data				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
8/24/2019	A	Volatiles Mix	041513 DKR	1.414	24037.82	0.0633	2.008	235208.51
8/24/2019	A	Blank	167428		0.00	0.0000	2.008	242043.57
8/24/2019	A	CER 25	FN09081706	1.415	16296.18	0.0568	2.008	240360.97
8/24/2019	A	CER 100	FN02271802	1.414	64656.64	0.0954	2.008	236599.29
8/24/2019	A	CER 200	FN06231704	1.412	131513.31	0.1470	2.006	240121.48
8/24/2019	A	CER 400	FN05131606	1.414	265456.78	0.4005	2.008	240045.03
8/24/2019	A	Blank	167428		0.00	0.0000	2.008	236952.30
8/24/2019	A	Lipomed 50	08012015-B	1.414	32100.37	0.0499	2.008	238082.00
8/24/2019	A	1789	201908B	1.414	62720.16	0.0967	2.008	237076.39
8/24/2019	A	1790	201908B	1.414	62710.25	0.0971	2.008	236014.70
8/24/2019	A	1791	201908B	1.414	62242.19	0.0970	2.008	234485.31
8/24/2019	A	1793	201908B	1.414	63293.84	0.0966	2.008	239596.67
8/24/2019	A	1794	201908B	1.414	63070.35	0.0968	2.008	238171.36
8/24/2019	A	1795	201908B	1.414	62973.07	0.0969	2.008	237469.88
8/24/2019	A	1797	201908B	1.414	63042.69	0.0967	2.008	238389.39
8/24/2019	A	1798	201908B	1.412	62995.64	0.0966	2.006	238335.19
8/24/2019	A	1799	201908B	1.415	62753.48	0.0969	2.008	236707.71
8/24/2019	A	1800	201908B	1.414	63418.06	0.0970	2.008	238968.24
8/24/2019	A	Lipomed 100	06072017-A_1	1.414	64462.67	0.0984	2.008	239520.01
8/24/2019	A	1789	201908B	1.414	62893.66	0.0968	2.008	237437.01
8/24/2019	A	1790	201908B	1.415	62278.67	0.0968	2.008	235282.54
8/24/2019	A	1791	201908B	1.414	63047.09	0.0976	2.008	236236.15
8/24/2019	A	1793	201908B	1.414	62192.21	0.0972	2.008	233947.48
8/24/2019	A	1794	201908B	1.414	63012.36	0.0968	2.008	238003.92
8/24/2019	A	1795	201908B	1.414	63213.73	0.0966	2.008	239304.18
8/24/2019	A	1797	201908B	1.415	62870.84	0.0968	2.009	237379.18
8/24/2019	A	1798	201908B	1.413	62444.22	0.0965	2.007	236471.76
8/24/2019	A	1799	201908B	1.413	62566.13	0.0969	2.007	236040.52
8/24/2019	A	1800	201908B	1.413	64142.56	0.0963	2.007	243596.14
8/24/2019	A	Lipomed 300	18052015-A/1	1.413	202289.11	0.2980	2.008	246107.90

%CV = 1.10%

8/25/19
JD

ALCOHOL ANALYSIS QC SUMMARY

Report Date	8/24/2019
Reviewer	TJ Graham

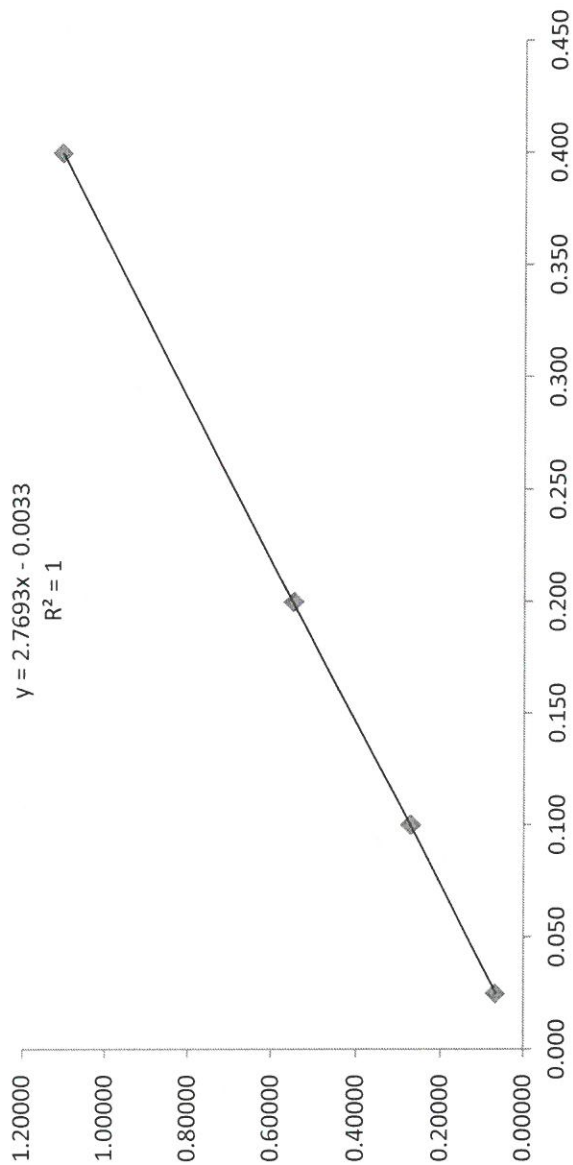
RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
8/24/2019	A	CER 25	FN09081706	1.415	16296.18	0.0568	2.008	240360.97
8/24/2019	A	CER 100	FN02271802	1.414	64656.64	0.0954	2.008	236599.29
8/24/2019	A	CER 200	FN06231704	1.412	131513.31	0.1470	2.006	240121.48
8/24/2019	A	CER 400	FN05131606	1.414	265456.78	0.4005	2.008	240045.03

Summary		Standard	g/dL	Ratio	Calc.	Diff
		Blank	0.000	0.00000	0.00000	0.00000
Slope	2.7693	CER 25	0.025	0.06780	0.02567	0.00067
Intercept	-0.0033	CER 100	0.100	0.27327	0.09986	-0.00014
Standard Error	0.002635957	CER 200	0.200	0.54769	0.19896	-0.00104
R-Squared	1.0000	CER 400	0.400	1.10586	0.40051	0.00051

Analytical Curve

$$y = 2.7693x - 0.0033$$

$$R^2 = 1$$



Source:	Alcohol Countermeasure Systems, Inc.
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Lot	201908B
Level	0.08 g/ 210 L
Manufacture Date	8/7/2019
Expiration Date	8/7/2021

Bottle	Result (g/100mL)
1789	0.0967
	0.0968
1790	0.0971
	0.0968
1791	0.0970
	0.0976
1793	0.0966
	0.0972
1794	0.0968
	0.0968
1795	0.0969
	0.0966
1797	0.0967
	0.0968
1798	0.0966
	0.0965
1799	0.0969
	0.0969
1800	0.0970
	0.0963

Mean	0.0968
Std. Dev.	0.0003
Min	0.0963
Max	0.0976

8/25/19
JED