

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	2153
10	2154
11	2155
12	2156
13	2158
14	2165
15	2166
16	2167
17	2169
18	2170
19	Lipomed 100
20	2153
21	2154
22	2155
23	2156
24	2158
25	2165
26	2166
27	2167
28	2169
29	2170
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-SOP section 2.14	May-17

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	100317 TG	N/A
Volatiles Mixture	041513 DKR	N/A
Water (Fisher Scientific)	167428	11/2021
Cerilliant 025	FN06221502	08/2020
Cerilliant 100	FN08101601	08/2021
Cerilliant 200	FN03301601	04/2021
Cerilliant 400	FN11191402	02/2020
Lipomed 50	08012015-B	01/2020
Lipomed 100	09022015-B	02/2020
Lipomed 300	18052015-A/1	05/2020

Reference Solution

Level Tested:	0.08 g/210 L
Lot #:	201709A
Manufacture Date:	9/12/2017
Expiration Date	9/12/2019

Operator: JJ Dehan
 Date: 10/4/17

Alcohol Analysis QC Summary

10/5/17
JG

Report Date	10/4/2017
Reviewer	TJ Graham

Run Summary Data			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
10/4/2017	A	Volatiles Mix	041513 DKR	1.414	23361.01	0.0388	2.008	211675.35
10/4/2017	A	Blank	167428		0.00	0.0000	2.008	212244.15
10/4/2017	A	CER 025	FN06221502	1.414	15438.01	0.0253	2.007	214606.74
10/4/2017	A	CER 100	FN08101601	1.414	60233.61	0.0999	2.008	211046.19
10/4/2017	A	CER 200	FN03301601	1.413	120094.20	0.2006	2.007	208472.87
10/4/2017	A	CER 400	FN11191402	1.413	242284.13	0.3997	2.007	211533.64
10/4/2017	A	Blank	167428		0.00	0.0000	2.008	212474.40
10/4/2017	A	Lipomed 50	08012015-B	1.414	30171.43	0.0502	2.008	209119.26
10/4/2017	A	2153	201709A	1.414	58356.06	0.0967	2.008	210314.04
10/4/2017	A	2154	201709A	1.414	58042.59	0.0972	2.008	208161.07
10/4/2017	A	2155	201709A	1.413	58519.24	0.0965	2.007	211234.70
10/4/2017	A	2156	201709A	1.414	58192.40	0.0966	2.007	209816.30
10/4/2017	A	2158	201709A	1.414	58542.53	0.0969	2.008	210525.26
10/4/2017	A	2165	201709A	1.414	57601.00	0.0963	2.008	208417.83
10/4/2017	A	2166	201709A	1.414	57799.63	0.0962	2.008	209278.23
10/4/2017	A	2167	201709A	1.414	58656.51	0.0964	2.008	211925.07
10/4/2017	A	2169	201709A	1.414	58251.94	0.0963	2.008	210727.78
10/4/2017	A	2170	201709A	1.414	58625.92	0.0962	2.008	212331.70
10/4/2017	A	Lipomed 100	09022015-B	1.414	60557.31	0.0994	2.008	212333.21
10/4/2017	A	2153	201709A	1.413	57888.75	0.0958	2.007	210496.41
10/4/2017	A	2154	201709A	1.414	58331.55	0.0964	2.008	210931.20
10/4/2017	A	2155	201709A	1.414	57962.00	0.0959	2.008	210560.95
10/4/2017	A	2156	201709A	1.414	58176.78	0.0961	2.008	210879.42
10/4/2017	A	2158	201709A	1.413	58876.52	0.0966	2.007	212278.04
10/4/2017	A	2165	201709A	1.414	58499.68	0.0967	2.008	210832.86
10/4/2017	A	2166	201709A	1.414	58833.14	0.0968	2.007	211760.00
10/4/2017	A	2167	201709A	1.414	58381.21	0.0968	2.008	210150.48
10/4/2017	A	2169	201709A	1.415	59612.69	0.0971	2.009	213891.93
10/4/2017	A	2170	201709A	1.414	60317.36	0.0956	2.008	219944.74
10/4/2017	A	Lipomed 300	18052015-A/1	1.413	185742.50	0.2998	2.007	216190.01

%CV = 1.12%

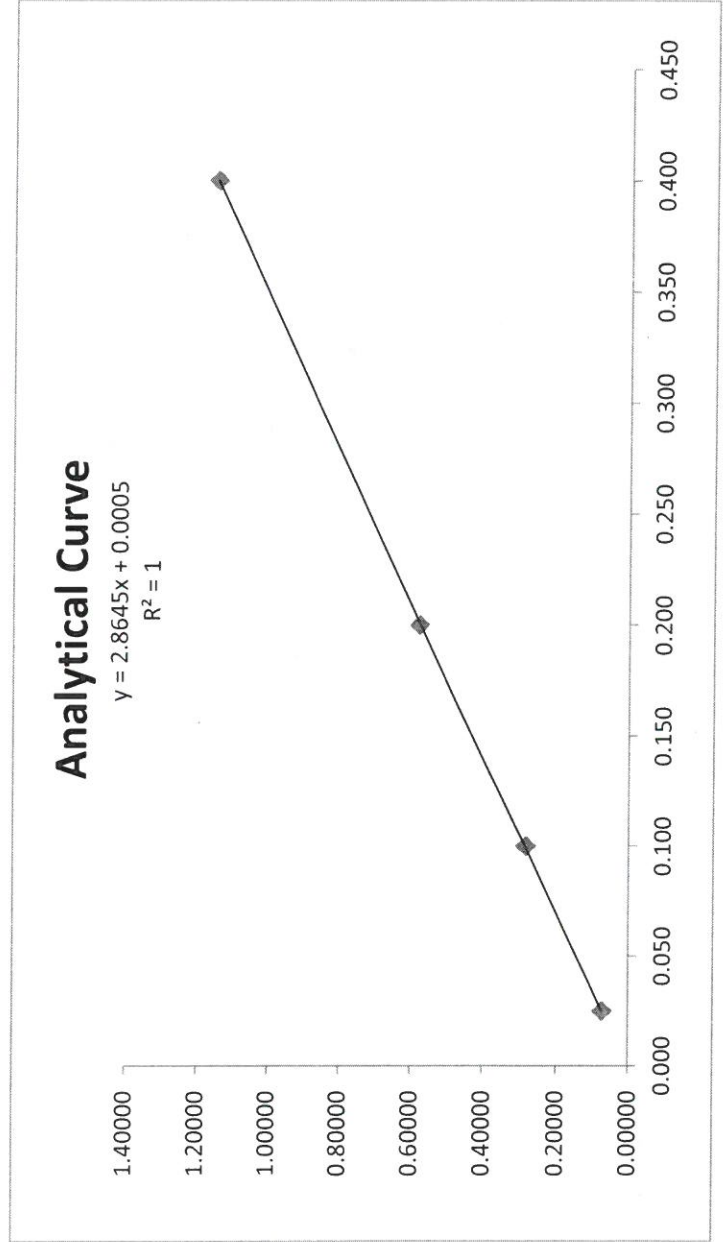
ALCOHOL ANALYSIS QC SUMMARY

Report Date	10/4/2017
Reviewer	TJ Graham

10/5/17
JB

RUN SUMMARY DATA				Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
10/4/2017	A	CER 025	FN06221502	1.414	15438.01	0.0253	2.007	214606.74	
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10/4/2017	A	CER 200	FN03301601	1.413	120094.20	0.2006	2.007	208472.87	
10/4/2017	A	CER 400	FN11191402	1.413	242284.13	0.3997	2.007	211533.64	

Summary	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8645	0.025	0.07194	0.02494	-0.00006
Intercept	0.0005	0.100	0.28540	0.09946	-0.00054
Standard Error	0.002279691	0.200	0.57607	0.20093	0.00093
R-Squared	1.0000	0.400	1.14537	0.39967	-0.00033



Source: Alcohol Countermeasure Systems, Inc.

Lot	201709A
Level	0.08 g/210 L
Manufacture Date	9/12/2017
Expiration Date	9/12/2019

Bottle	Result (g/100mL)
2153	0.0967
	0.0958
2154	0.0972
	0.0964
2155	0.0965
	0.0959
2156	0.0966
	0.0961
2158	0.0969
	0.0966
2165	0.0963
	0.0967
2166	0.0962
	0.0968
2167	0.0964
	0.0968
2169	0.0963
	0.0971
2170	0.0962
	0.0956

Mean	0.0965
Std. Dev.	0.0004
Min	0.0956
Max	0.0972

10/5/17
JE