



*Idaho State Police Forensic Services*

**CERTIFICATE OF ANALYSIS/APPROVAL**

The Idaho State Police Forensic Services (ISPFS) hereby certifies and approves Alcohol Simulator Solution **Lot Number 18110** (a product manufactured by RepCo Marketing, Inc.) to be used to conduct performance verification checks within the State of Idaho in accordance with the analytical methods, policies and/or procedures promulgated by the Department governing breath alcohol examinations. ISPFS also approves of the manufacturer of this solution (RepCo Marketing, Inc.) to provide Alcohol Simulator Solution **Lot Number 18110** in the State of Idaho. This lot has a target value of 0.200 with a range of 0.180 to 0.220 grams of ethyl alcohol/210 liters of vapor.

The expiration date for this lot number is on October 16<sup>th</sup>, 2020 at 11:59 PM.

12-3-18

Date

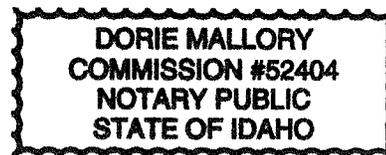
Volatiles Analysis Discipline Leader

STATE OF IDAHO    )  
                                  ) ss.  
County of Kootenai)

On this 3<sup>rd</sup> day of December, in the year 2018, before me, Dorie Mallory, a notary public, Jeremy Johnston personally appeared, known to me to be the person whose name is subscribed to the within instrument as a Forensic Scientist for the Idaho State Police Forensic Services, and acknowledged to me that he executed the same as such Scientist.

Dorie Mallory Notary Public

My Commission Expires: 5/13/20



Raw data from analysis: LOT #18110

				Raw	Average	
Analyst: JJ	Bottle #2	sample #1	a	0.2412	0.2419	overall mean: <b>0.2421</b>
			b	0.2426		
		sample #2	a	0.2423	0.2423	
			b	0.2423		
Analyst: JG	Bottle #3	sample #1	a	0.2443	0.2442	overall mean: <b>0.2456</b>
			b	0.2441		
		sample #2	a	0.2468	0.2470	
			b	0.2472		

average of all raw data: **0.24385**

alcohol content conversion with 1.23: **0.198252**  
 with 1.21: 0.201529

**Target value from provider:**  
 0.2425 +/- 3% range 0.249775  
 0.235225  
 0.2 +/- 3% range 0.206  
 0.194

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**CERTIFICATE OF ANALYSIS****MANUFACTURER AND SUPPLIER: RepCo Marketing Co.****LOT NUMBER: 18110****EXPIRATION DATE: October 16, 2020** at 11:59 p.m.

RepCo Marketing Co. certifies the following:

RepCo Marketing Co. prepared, tested and supplied Lot Number 18110 of Alcohol Certified Solution for simulators. This solution was manufactured and tested by RepCo Marketing Co., with confirmation by accredited institution, Data Resources Inc., using NIST standards. Random samples were analyzed by Data Resources Inc. utilizing a gas chromatograph and found to contain .2444 gms/dl +/- .003 gms/dl wt/vol ethanol (95% Confidence).

The alcohol and distilled water used in the solution were found to be free of any interfering substance.

This solution will produce a vapor alcohol value of .200 +/-3% gms/210L Breath when heated to 34 Degrees Celsius +/-0.2 Degrees Celsius in a simulator (95% Confidence).

The date of manufacture for this lot number is October 17, 2018 The expiration date for this lot number is October 16, 2020 at 11:59 p.m.

This document is a true representation of the original Certificate of Analysis.



Alma Palmer, Operations Manager  
RepCo Marketing Co.



# DATA PACKAGE

DATA RESOURCES INC  
1410 ST ANDREWS RD - STE 200  
COLUMBIA SC 29210  
BUS: 803-561-0331  
FAX: 803-561-0536

PROJECT : ETHANOL ASSAY -- LOT #18110  
CREATED ON : 10/30/2018

ORDER ID: : **181030X102**

REPORT TO : REPCO MARKETING  
Alma Palmer  
3101-188 Stonybrook Drive  
Raleigh NC 27604

CUSTOMER ID : REPCO  
JOB ID :

EPA REGULATION : NON REGULATORY  
EPA COMPLIANCE : NON COMPLIANT

THANK YOU FOR CHOOSING DATA RESOURCES, INC. AS YOUR SOURCE FOR QUALITY LABORATORY SERVICES. DATA RESOURCES, INC. STRIVES TO PROVIDE UNPARALLELED SERVICE AND SUPPORT REGARDING YOUR SAMPLE ANALYSIS REQUIREMENTS. DATA RESOURCES, INC. PROVIDES TECHNICAL EXPERTISE, PROJECT MANAGEMENT SKILLS, CUSTOMER SUPPORT, AND ACCURATE TEST RESULTS.

PLEASE TAKE A MOMENT TO REVIEW THE FOLLOWING DATA PACKAGE.

ON THE FOLLOWING PAGES YOU WILL FIND GENERAL REFERENCE INFORMATION ABOUT THE DATA PRESENTED IN THIS ANALYSIS REPORT. THIS INFORMATION AND MORE CAN BE FOUND ON OUR WEBSITE AT [HTTP://DATARESOURCESINC.COM](http://DATARESOURCESINC.COM)

Bruce E. Watt  
Project Manager, Data Resources Inc

Bruce E Watt  
Laboratory Director, Data Resources Inc - Columbia

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FOR ORGANIZATIONAL PURPOSES THE FOLLOWING DATA PACKAGE  
IS DIVIDED INTO SECTIONS AS LISTED BELOW:

PAGE	SECTION
i	COVER PAGE
ii	INDEX PAGE (This page)
1	SAMPLE CONTAINER MANIFEST
2	ANALYTICAL DATA -- PERFORMED BY DATA RESOURCES
7	CHAIN-OF-CUSTODY and SAMPLE RECEIPT RECORDS
8	TOTAL PAGES (Not including COVER and INDEX pages)

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# SAMPLE CONTAINER MANIFEST

DATA RESOURCES INC  
1410 ST ANDREWS RD - STE 200  
COLUMBIA SC 29210  
BUS: 803-561-0331  
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PROJECT : ETHANOL ASSAY -- LOT #18110

CREATED ON : 2018-10-30

ORDER ID: : **181030X102**

REPORT TO : REPCO MARKETING  
Alma Palmer  
3101-188 Stonybrook Drive  
Raleigh NC 27604

CUSTOMER ID : REPCO  
JOB ID : 72

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EPA COMPLIANCE : NON COMPLIANT

SITE

BTL 1

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE HOLDING
104032	2018-10-18	1	LIQUID	GRAB	Plastic	500 mL	NONE

SITE

BTL 2

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE HOLDING
104033	2018-10-18	1	LIQUID	GRAB	Plastic	500 mL	NONE

SITE

INHOUSE @ 200 mg/dL

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE HOLDING
0	2018-10-18	1	LIQUID	GRAB	Plastic	500 mL	NONE



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DATA RESOURCES INC  
 1410 ST ANDREWS RD - STE 200  
 COLUMBIA SC 29210  
 BUS: 803-561-0331  
 FAX: 803-561-0536

PERFORMED AT: DR - COLUMBIA  
 CERTIFICATION: SCDHEC: 40569

PROJECT : ETHANOL ASSAY -- LOT #18110

CREATED ON : 10/30/2018

ORDER ID: **181030X102**

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 Raleigh NC 27604

CUSTOMER ID : REPCO  
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EPA REGULATION : NON REGULATORY  
 EPA COMPLIANCE : NON COMPLIANT

SITE						CONTAINER DESCRIPTION			
	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	TYPE	SIZE	PRESERVATIVE	HOLDING
BTL 1	LIQUID	GRAB	2018-10-18		1	Plastic	500 mL	NONE	

TEST			PRIORITY	METHOD			
ETHANOL ASSAY			Normal	CUSTOM			
PARAMETER	ANALYSIS TIMESTAMP [AGED]	RESULT	QUAL	LIMIT HI LIMIT LO	PQL MDL	DILUTON INSTRUMENT	UNIT ANALYST
ETHANOL REPLICATE 1	2018-10-25 [7.00 days]	245.786		NA NA		1	mg/dL bewatt
ETHANOL REPLICATE 2	2018-10-25 [7.00 days]	244.450		NA NA		1	mg/dL bewatt
ETHANOL REPLICATE 3	2018-10-25 [7.00 days]	246.079		NA NA		1	mg/dL bewatt
ETHANOL AVERAGE	2018-10-25 [7.00 days]	245.438		NA NA		1	mg/dL bewatt

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SITE	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	CONTAINER DESCRIPTION			
						TYPE	SIZE	PRESERVATIVE	HOLDING
BTL 2	LIQUID	GRAB	2018-10-18		1	Plastic	500 mL	NONE	

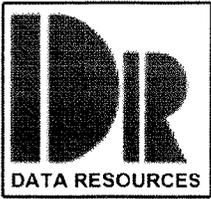
TEST	PRIORITY	METHOD
ETHANOL ASSAY	Normal	CUSTOM

PARAMETER	ANALYSIS TIMESTAMP [AGED]	RESULT	QUAL	LIMIT HI	PQL	DILUTON	UNIT
				LIMIT LO	MDL	INSTRUMENT	ANALYST
ETHANOL REPLICATE 1	2018-10-25 [7.00 days]	244.099		NA		1	mg/dL
				NA			bewatt
ETHANOL REPLICATE 2	2018-10-25 [7.00 days]	241.715		NA		1	mg/dL
				NA			bewatt
ETHANOL REPLICATE 3	2018-10-25 [7.00 days]	244.344		NA		1	mg/dL
				NA			bewatt
ETHANOL AVERAGE	2018-10-25 [7.00 days]	243.386		NA		1	mg/dL
				NA			bewatt

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ACCESS THIS INFORMATION ONLINE: Go to <http://DataResourcesInc.com> and choose the menu option "CUSTOMER LOGIN"



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SITE						CONTAINER DESCRIPTION			
	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	TYPE	SIZE	PRESERVATIVE	HOLDING
INHOUSE @ 200 mg/dL	LIQUID	GRAB	2018-10-18		1	Plastic	500 mL	NONE	

TEST	PRIORITY	METHOD
ETHANOL ASSAY	Normal	CUSTOM

PARAMETER	RESULT	QUAL	LIMIT HI	PQL	DILUTON	UNIT
ANALYSIS TIMESTAMP [AGED]			LIMIT LO	MDL	INSTRUMENT	ANALYST
ETHANOL REPLICATE 1 2018-10-25 [7.00 days]	201.742		NA		1	mg/dL bewatt
ETHANOL REPLICATE 2 2018-10-25 [7.00 days]	201.924		NA		1	mg/dL bewatt
ETHANOL REPLICATE 3 2018-10-25 [7.00 days]	197.351		NA		1	mg/dL bewatt
ETHANOL AVERAGE 2018-10-25 [7.00 days]	200.339		NA		1	mg/dL bewatt

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CUSTOMER ID : REPCO  
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### JOB COMMENTS:

=> No Evidence of contamination was seen.

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REPORT FIELDS DEFINED:

ANALYSIS or SERVICE PERFORMED = The Requested analysis or service performed.
RESULT = The value or answer acquired from requested analysis or service performed.
BDL (Below Detection Limit) indicates result is below listed RDL.
ND (Not Detected) indicates result is below listed MDL.
< (Less than symbol) indicates that result is lower than value reported
> (Greater than symbol) indicates that result is higher than value reported
UNIT = Unit of measure.
dwb = Identifies result value as Dry Weight Basis.
QUAL = Additional qualification on result [See DATA QUALIFIERS DEFINED section].
RDL = (Reportable Detection Limit) The lowest calibrated result achievable by stated analytical method.
MDL = (Method Detection Limit) The lowest result achievable by stated analytical method.
METHOD = The stated methodology employed for the analysis or service performed.
ANALYSIS D/T = The date and time when analysis or service was performed.
ANALYST LOCATOR= The analyst and location that performed the analysis or service. All work is performed by a division of Data Resources Inc. unless alternate certification number is provided in this field.
PRIORITY = The requested turn-around priority.

DATA QUALIFIERS DEFINED:

C = Analytical result has been confirmed with multiple analyses.
I = Estimated result, result is < RDL but > MDL.
JC = See Job Comments.
J1 = In replicate analyses surrogate recoveries (2 or more for acid fraction, 2 or more for base/neutral fraction, 1 or more for volatile fraction) were out of range but > 10%. The result is an estimated value.
J2 = In replicate analyses surrogate recoveries (2 or more for acid fraction, 2 or more for base/neutral fraction, 1 or more for volatile fraction) were out of range and < 10%. The result is an estimated value.
J3 = In replicate analyses internal standard area counts were out of range. The result is an estimated value.
OH = Holding Time expired prior to analysis
OH2 = Holding Time expired prior to re-analysis. Initial analysis was performed in holding but with estimated results.
M1 = The MS %R is outside acceptable control limits. However, MS/MSD RPD is in acceptable control limits.
2:1 = The BOD reported result failed to meet the Two One Rule.
SC = See Sample Comments.

2-CHLOROETHYLVINYLEETHER -vs- \*\*2-CHLOROETHYLVINYLEETHER NOTED ON ANALYSIS REPORT:

Past studies show that 2-Chloroethylvinylether undergoes hydrolysis when collected in preserved (HCl to pH<2) VOC vials. SCDHEC requires a sampling protocol to involve NON-preserved VOC vials when this parameter is needed. To provide the best quality data for this parameter, DR will perform a separate analysis at an additional cost. Should you request this parameter and only provide preserved VOC vials, the analysis of this parameter will be performed and the parameter identity prefixed with \*\* to identify this potential issue occurring.

AROCHLOR RESULTS:

Any positive Arochlor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L).

LABORATORY pH, CHLORINE, and TEMPERATURE RESULTS:

If analysis occurs in the lab in excess of 15 minutes of collection, then the result MAY NOT be used for compliance.

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SAMPLE RECEIPT RECORDS:  
- CHAIN OF CUSTODY  
- SAMPLE RECEIPT REVIEW

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181030x102

RepCo Marketing Co.  
3101-188 Stony Brook Drive  
Raleigh, NC 27604

Phone: 919-876-5480

Fax: 919-876-5467

### Purchase Order

<b>To:</b> Data Resources, Inc.				<b>Ship To:</b> RepCo Marketing Co.		
<b>Address:</b> 1410 St. Andrews Road Suite 200				<b>Address:</b> 3101-188 Stony Brook Drive		
<b>City, State, Zip</b> Columbia, SC 29210				<b>City, State, Zip</b> Raleigh, NC 27604		
<b>Date</b>	<b>Date Required</b>	<b>Terms</b>	<b>How Shipped</b>	<b>Purchase Order #</b>	<b>For</b>	
10-18-18	ASAP	Reg.	FedEx	10182018		
<b>Quantity</b>	<b>Description</b>			<b>Unit Price</b>	<b>Total</b>	
1	2	Ethanol Simulator Solution-Lot #18110			45.00	
2		Target Value .2420 gms/dl				
3		3 Samples/Btl				
4						
5		*This lot does NOT need you to create a				
6		Certificate of Analysis.				
7						
8		Thank you Bruce!				
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
<b>Important</b>				PLEASE SEND <u>  1  </u> COPIES OF YOUR		
PURCHASE ORDER NUMBER MUST				INVOICE WITH ORIGINAL BILL OF		
APPEAR ON ALL INVOICES - PACKING,				LADING.		
ETC.				PURCHASING AGENT: Alma Palmer		

Rec'd  
10-22-18  
BENATS

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