Alcotest 7110 Calibration Record

Equipment Alcotest 7110 MKIII-C Serial No.: ARUM-0066 Location: PENNSAUKEN TWSP. P.D. Calibration File No.: 02469 Calib. Date: 10/24/2018 Calib. No.: 00034 Certification File No.: 02423 Cert. Date: 05/16/2018 Cert. No.: 00029 Linearity File No.: 02424 Lin. Date: 05/16/2018 Lin. No.: 00029 Solution File No.: 02468 Soln. Date: 10/23/2018 Soln. No.: 00259 Sequential File No.: 02469 File Date: 10/24/2018 Calibrating Unit: WET Model No.: CU-34 Serial No.: DDUN S3-0341 Control Solution %: 0.100% Expires: 08/07/2019 Solution Control Lot: 17230 Bottle No.: 0656

Coordinator

Last Name: WATSON

First Name: MATTHEW

MI: R

Signature: Tor Phall had have

Badge No.: 7078

Date: 10/24/2018

*Black Key Temperature Probe Serial.....# DDLBP3-0098 MRV

*Digital NIST Temperature Measuring System Serial.....#_ 179438363

Pursuant to law, and the "Chemical Breath Testing Regulations" N.J.A.C. 13:51, I am a duly appointed Breath Test Coordinator/Instructor. In my official capacity, and consistent with "Calibration Check Procedure for Alcotest 7110," as established by the Chief Forensic Scientist of the Division of State Police, 1 perform calibration checks on approved instruments employing infrared analysis and electrochemical analysis, when utilized in a single approved instrument as a dual system of chemical breath testing. Pursuant to, and consistent with, the current "Calibration Check Procedure for Alcotest 7110," as established by the Chief Forensic Scientist, I performed a Calibration Check on the approved instrument identified on this certificate. The results of my Calibration Check are recorded on this certificate, which consists of two parts on two pages: Part I - Control Tests; and Part II - Linearity Tests. I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are wilfully false, I am subject to punishment.

Alcotest 7110 Calibration Certificate

Part I - Control Tests

Equipment	Alcotest 7110	MKIII-C			Serial No.:	ARUM-0066
Location:	PENNSAUKE	N TWSP. P.	.D.			
Calibration File No.:	02469		Calib. Date:	: 10/24/2018	Calib. No.:	00034
Certification File No.:	02470		Cert. Date:	10/24/2018	Cert. No.:	00030
Linearity File No.:	02424		Lin. Date:	05/16/2018	Lin. No.:	00029
Solution File No.:	02468		Soln. Date:	10/23/2018	Soln. No.:	00259
Sequential File No.:	02470		File Date:	10/24/2018		
Calibrating Unit:	WET		Model No.:	CU-34	Serial No.:	DDUN S3-0341
Control Solution %:	0.100%				Expires:	08/07/2019
Solution Control Lot:	17230				Bottle No.:	0656
Function		Result	Time	Temperature	Com	ment(s)
		%BAC	HH:MM	Simulator (°C)		ror(s)
Ambient Air Blank		0.000%	09:28D			
Control 1 EC		0.101%	09:29D	33.9°C	*** TEST F	ASSED ***
Control 1 IR		0.100%	09:29D	33.9°C	*** TEST F	ASSED ***
4 1 1 4 1 DI 1		0 0000				

			P	Comment (s)
	%BAC	HH:MM	Simulator (°C)	or Error(s)
Ambient Air Blank	0.000%	09:28D		
Control 1 EC	0.101%	09:29D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.100%	09:29D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:29D		
Control 2 EC	0.098%	09:30D	34.0°C	*** TEST PASSED ***
Control 2 IR	0.100%	09:30D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:31D		
Control 3 EC	0.100%	09:31D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.099%	09:31D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:32D		

All tests within acceptable tolerance

Coordinator

Last Name: WATSON

First Name: MATTHEW

MI: R

Signature:

the 30

Badge No.: 7078

010

Date:

10/24/2018

Pursuant to law, and the "Chemical Breath Testing Regulations" N.J.A.C. 13:51, I am a duly appointed Breath Test Coordinator/Instructor. In my official capacity, and consistent with "Calibration Check Procedure for Alcotest 7110," as established by the Chief Forensic Scientist of the Division of State Police, I perform calibration checks on approved instruments employing infrared analysis and electrochemical analysis, when utilized in a single approved instrument as a dual system of chemical breath testing. Pursuant to, and consistent with, the current "Calibration Check Procedure for Alcotest 7110," as established by the Chief Forensic Scientist, I performed a Calibration Check on the approved instrument identified on this certificate. The results of my Calibration Check are recorded on this certificate, which consists of two parts on two pages: Part I - Control Tests; and Part II - Linearity Tests. I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are wilfully false, I am subject to punishment.

Alcotest 7110 Calibration Certificate Part II - Linearity Tests

Equipment Location:	Alcotest 7110 PENNSAUKI				Serial No.:	ARUM-0066
Calibration File No.:	02469			e: 10/24/2018	Calib. No.:	
Certification File No.:				: 10/24/2018	Cert. No.:	
Linearity File No.:	02471		Lin. Date:		Lin. No.:	00030
Solution File No.: Sequential File No.:	02468 02471		Soln. Date		Soln. No.:	00259
Sequential File No.:	02471		File Date:	10/24/2018		
Calibrating Unit:	WET		Model No.	: CU-34	Serial No.:	DDXD S3-0187
Control Solution %:	0.040%				Expires:	08/10/2019
Solution Control Lot:	17240				Bottle No.:	0320
100 0000 I						
Calibrating Unit:	WET		Model No.	: CU-34		DDWF S3-0223
Control Solution %:	0.080%				Expires:	08/15/2019
Solution Control Lot:	17250				Bottle No.:	0256
Calibrating Unit:	WET		Model No.	: CU-34	Serial No.:	DDWF S3-0225
Control Solution %:	0.160%				Expires:	08/21/2019
Solution Control Lot:	17260				Bottle No.:	
Function		Result	Time	Temperature		ment(s)
A1-' A' D1 - 1		%BAC	HH:MM	Simulator (°C)	or Er	ror(s)
Ambient Air Blank		0.000%	09:41D	22.000	duluk MEGM F	A CCEP delete
Control 1 EC Control 1 IR		0.041%	09:41D	33.9°C		PASSED ***
Ambient Air Blank		0.040%	09:41D	33.9°C	*** TEST I	PASSED ***
Control 2 EC		0.000% 0.041%	09:43D 09:43D	34.0°C	ቀቀቀ <u>መ</u> ኮርጥ ፣	V CCLD 444
Control 2 IR		0.041%	09:43D	34.0°C		PASSED *** PASSED ***
Ambient Air Blank		0.000%	09:45D	34.0 C	TEST F	ASSED ***
Control 3 EC		0.081%	09:45D	34.0°C	*** TEST F	ASSED ***
Control 3 IR		0.080%	09:45D	34.0°C		ASSED ***
Ambient Air Blank		0.000%	09:47D	31.0 C	TEST	NOOLD
Control 4 EC		0.081%	09:48D	34.0°C	*** TEST P	ASSED ***
Control 4 IR		0.079%	09:48D	34.0°C		ASSED ***
Ambient Air Blank		0.000%	09:49D		12011	TIGGED
Control 5 EC		0.160%	09:50D	34.0°C	*** TEST P	ASSED ***
Control 5 IR		0.159%	09:50D	34.0°C		ASSED ***
Ambient Air Blank		0.000%	09:51D			
Control 6 EC		0.161%	09:52D	33.9°C	*** TEST P	ASSED ***
Control 6 IR		0.160%	09:52D	33.9°C	*** TEST P	ASSED ***
Ambient Air Blank		0.000%	09:53D			

All tests within acceptable tolerance.

Coordinator

Last Name: WATSON Signature: Ten I All # 2078

First Name: MATTHEW

MI: R

Badge No.: 7078 Date: 10/24/2018

Calibrating Unit New Standard Solution Report

Equipment	Alcotest 7110	MKIII-C			Serial No.:	ARUM-0066
Location:	PENNSAUKE	EN TWSP. P.	D.			
Calibration File No.:	02469		Calib. Date:	: 10/24/2018	Calib. No .:	00034
Certification File No .:	02470		Cert. Date:	10/24/2018	Cert. No.:	00030
Linearity File No.:	02471		Lin. Date:	10/24/2018	Lin. No.:	00030
Solution File No.:	02472		Soln. Date:	10/24/2018	Soln. No.:	00260
Sequential File No.:	02472		File Date:	10/24/2018		
Calibrating Unit: Control Solution %: Solution Control Lot:	WET 0.100% 18090		Model No.:	CU-34	Serial No.: Expires: Bottle No.:	DDUN S3-0341 03/13/2020 0612
Function		Result %BAC	Time HH:MM	Temperature Simulator (°C)		ment(s)
Ambient Air Blank		0.000%	10:57D			
Control 1 EC		0.101%	10:58D	34.0°C	*** TEST I	PASSED ***
Control 1 IR		0.101%	10:58D	34.0°C	*** TEST I	PASSED ***
Ambient Air Blank		0.000%	10:59D			
Control 2 EC		0.100%	10:59D	34.0°C	*** TEST F	PASSED ***
Control 2 IR		0.100%	10:59D	34.0°C	*** TEST F	PASSED ***
Ambient Air Blank		0.000%	11:00D			
Control 3 EC		0.101%	11:01D	33.9°C	*** TEST F	ASSED ***
Control 3 IR		0.101%	11:01D	33.9°C	*** TEST F	ASSED ***
Ambient Air Blank						

All tests within acceptable tolerance.

On this date, I installed the above indicated "NEW SOLUTION" in acordance with Alcotest 7110 operator training and procedures established by the (NJSP) Chief Forensic Scientist.

Temperature Probe Serial Number:

DDHHP2-848

MI: R

Changed By:

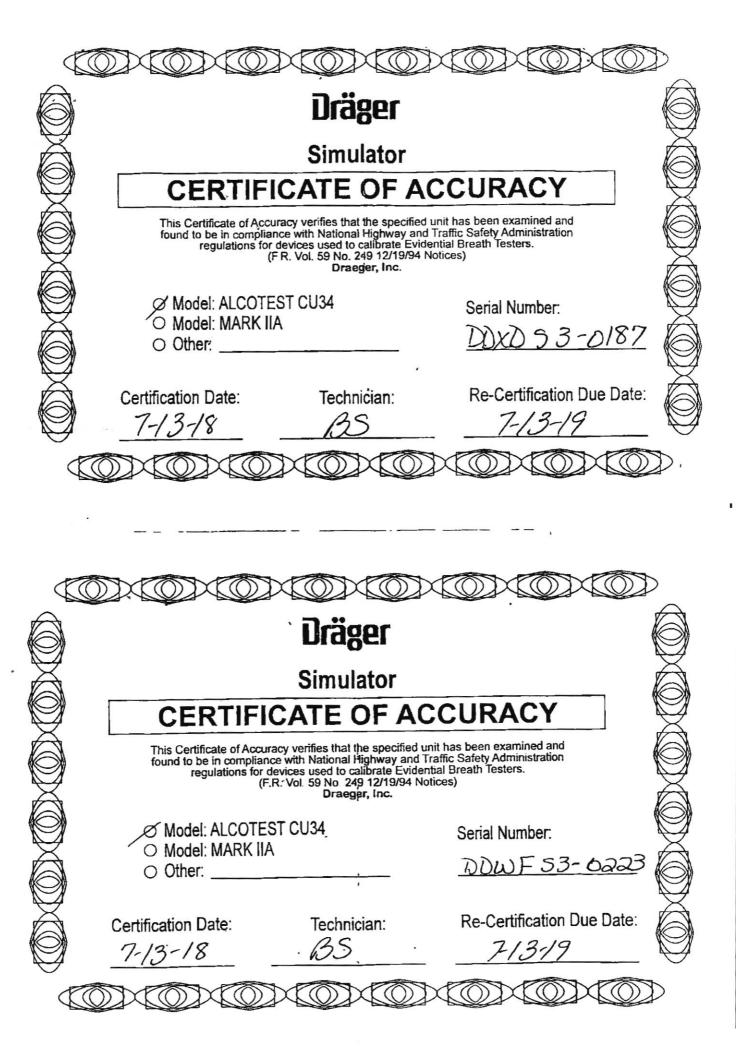
Last Name: WATSON

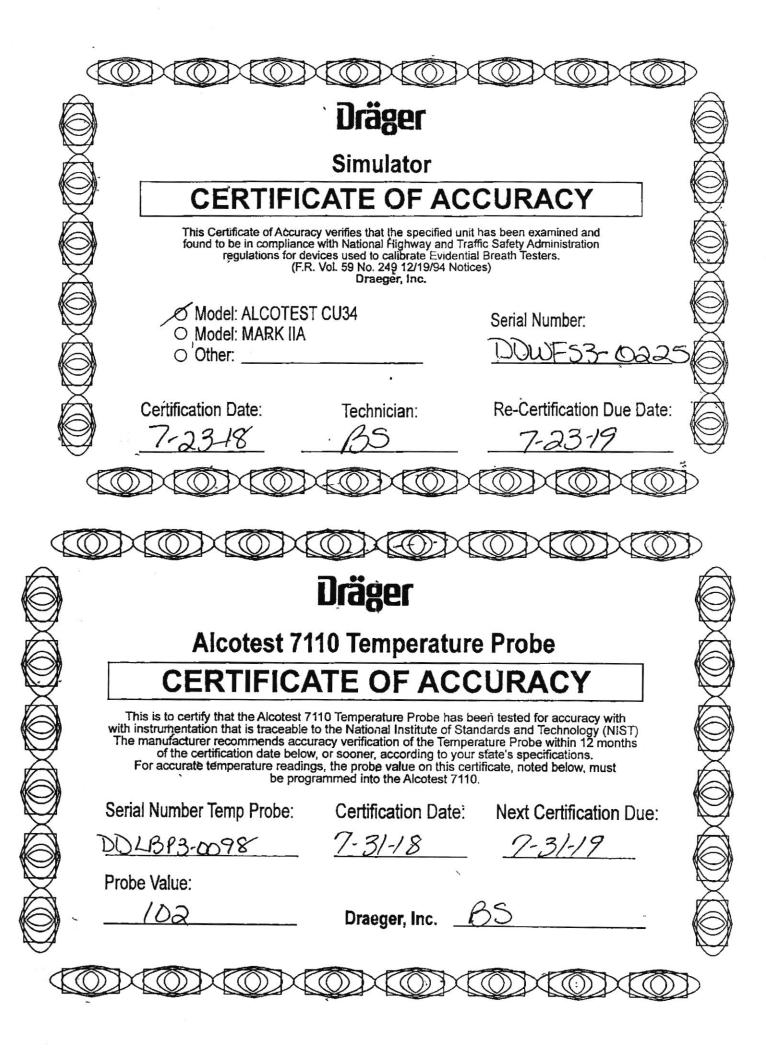
First Name: MATTHEW

Badge No.: 7078

Date:

10/24/2018









Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4000-8609162

Traceable® Certificate of Calibration for Digital Thermometer

Manufactured for and distributed by: VWR International, LLC, Radnor Corporate Center, Bldg 1, Ste 200, 100 Matsonford Road, Radnor, PA 19087 Instrument Identification:

Model: 61220-601

S/N: 170428362

Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC-231	A79341		THE THE SEASON TROICING
Thermistor Module	A27129	12/01/17	1000401760
Temperature Probe	5267	12/06/17	B6B30059
Temperature Calibration Bath TC-191	A42238		
Thermistor Module	A27129	12/01/17	1000401760
Temperature Probe	5202	12/19/17	B6B30058-1
Temperature Calibration Bath TC-218	A73332		
Thermistor Probe	5356	1/10/18	B7104024
Readout, Digital Thermometer	B5C344	3/12/18	B7314035
Temperature Calibration Bath TC-275	B16388		
Thermistor Probe	5357	1/06/18	B7104023
Readout, Digital Thermometer	B5C344	3/12/18	B7314035

Certificate Information:

Technician: 104 Test Conditions:

Procedure: CAL-06

50.0 %RH 1014 mBar

Cal Date: 6/08/17

Due Date: 6/08/19

Calibration Data: (New Instrument)

23.5°C

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C		N.A.		0.002	0.000	Y	-0.048	0.052	0.010	>4:1
°C		N.A.		25.003	25.001	Y	24.953	25.053	0.010	>4:1
°C		N.A.		50.002	50.001	Y	49.952	50.052	0.010	>4:1
°C		N.A.		100.001	99.999	Y	99.951	100.051	0.010	>4:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Union Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under lest and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = As Left Nominal(Rounded) - Tolerance; Max = As Left Nominal(Rounded) + Tolerance; Date=MM/DD/YY

Micol Rodriguez, Quality Manager

Aaron Judice, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598 Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

Control Company is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.

Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Certificate No. CERT-01805-2006-AQ-HOU-RVA. International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

Page 1 of I

Traceable® is a registered trademark of Control Company

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CHRIS CHRISTIE

KIM GUADAGNO Lt. Governor OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON, NJ 08628-0068
(609) 882-2000

CHRISTOPHER S. PORRINO
Attornev General

COLONEL JOSEPH R. FUENTES
Superintendent

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1174 to 0.1246 grams per 100 milliliters of solution.

MANUFACTURER: Draeger Safety, Inc.

ANALYSIS DATE: 08/24/2017

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 17230

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of <u>0.1202</u> to <u>0.1216</u> grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is August 07, 2019.

As Research Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Ali M. Alaouie, Ph.D. Research Scientist

NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 24 day of august, 2017.

A. J

PETER F MURPHY IV My Commission Expires August 1, 2019

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CHRIS CHRISTIE

KIM GUADAGNO Li. Governor OFFICE OF THE ATTORNEY GENERAL
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DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON, NJ 08628-0068
(609) 882-2000

CHRISTOPHER S. PORRINO
Attorney General

COLONEL JOSEPH R. FUENTES

Superintendent

CERTIFICATION OF ANALYSIS 0.04 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.0469 to 0.0499 grams per 100 milliliters of solution.

MANUFACTURER: Draeger Safety, Inc.

ANALYSIS DATE: 08/29/2017

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 17240

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of <u>0.0483</u> to <u>0.0489</u> grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is August 10, 2019.

As Research Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Ali M. Alaouie, Ph.D. Research Scientist

NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 30th day of August

Notary

MARY ELIZABETH MCLAUGHLIN

ID # 2052190 NOTARY PUBLIC STATE OF NEW JERSEY My Commission Expires Dec. 24, 2018



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CHRIS CHRISTIE

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WEST TRENTON, NJ 08628-0068
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CHRISTOPHER S. PORRINO Attornev General

COLONEL JOSEPH R. FUENTES

Superintendent

CERTIFICATION OF ANALYSIS 0.08 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.0939 to 0.0997 grams per 100 milliliters of solution.

MANUFACTURER: Draeger Safety, Inc.

ANALYSIS DATE: 09/07/2017

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 17250

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.0963 to 0.0973 grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is <u>August 15, 2019</u>.

As Research Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Ali M. Alaouie, Ph.D. Research Scientist

NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 11 day of September, 2017.

Notary

PETER F MURPHY IV My Commission Expires August 1, 2019

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CHRIS CHRISTIE Governor

KIM GUADAGNO Lt. Governor OFFICE OF THE ATTORNEY GENERAL
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POST OFFICE BOX 7068
WEST TRENTON, NJ 08628-0068
(609) 882-2000

CHRISTOPHER S. PORRINO
Attorney General

COLONEL JOSEPH R. FUENTES
Superintendent

CERTIFICATION OF ANALYSIS 0.16 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1878 to 0.1994 grams per 100 milliliters of solution.

MANUFACTURER: Draeger Safety, Inc.

ANALYSIS DATE: 09/12/2017

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 17260

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1937 to 0.1957 grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is <u>August 21, 2019</u>.

As Research Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Ali M. Alaouie, Ph.D. Research Scientist

NJSP Office of Forensic Sciences

Sworn, to and subscribed before me this 13 day of Splember, 2017.

Notary

PETER F MURPHY IV My Commission Expires August 1, 2019

(I)

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PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER

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DIVISION OF STATE POLICE
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WEST TRENTON, NJ 08628-0068
(609) 882-2000

GURBIR S. GREWAL
Attornev General

PATRICK J. CALLAHAN

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1174 to 0.1246 grams per 100 milliliters of solution.

MANUFACTURER: Draeger Safety, Inc.

ANALYSIS DATE: 04/04/2018

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 18090

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1215 to 0.1228 grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is March 13, 2020.

As Research Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Ali M. Alaouie, Ph.D. Research Scientist

NJSP Office of Forensic Sciences

Sword to and subscribed before me this 5^{T} day of 9000, 2018

Notary

PETER F MURPHY IV My Commission Expires August 1, 2019



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