

# Alcotest 7110 Calibration Record

## Equipment

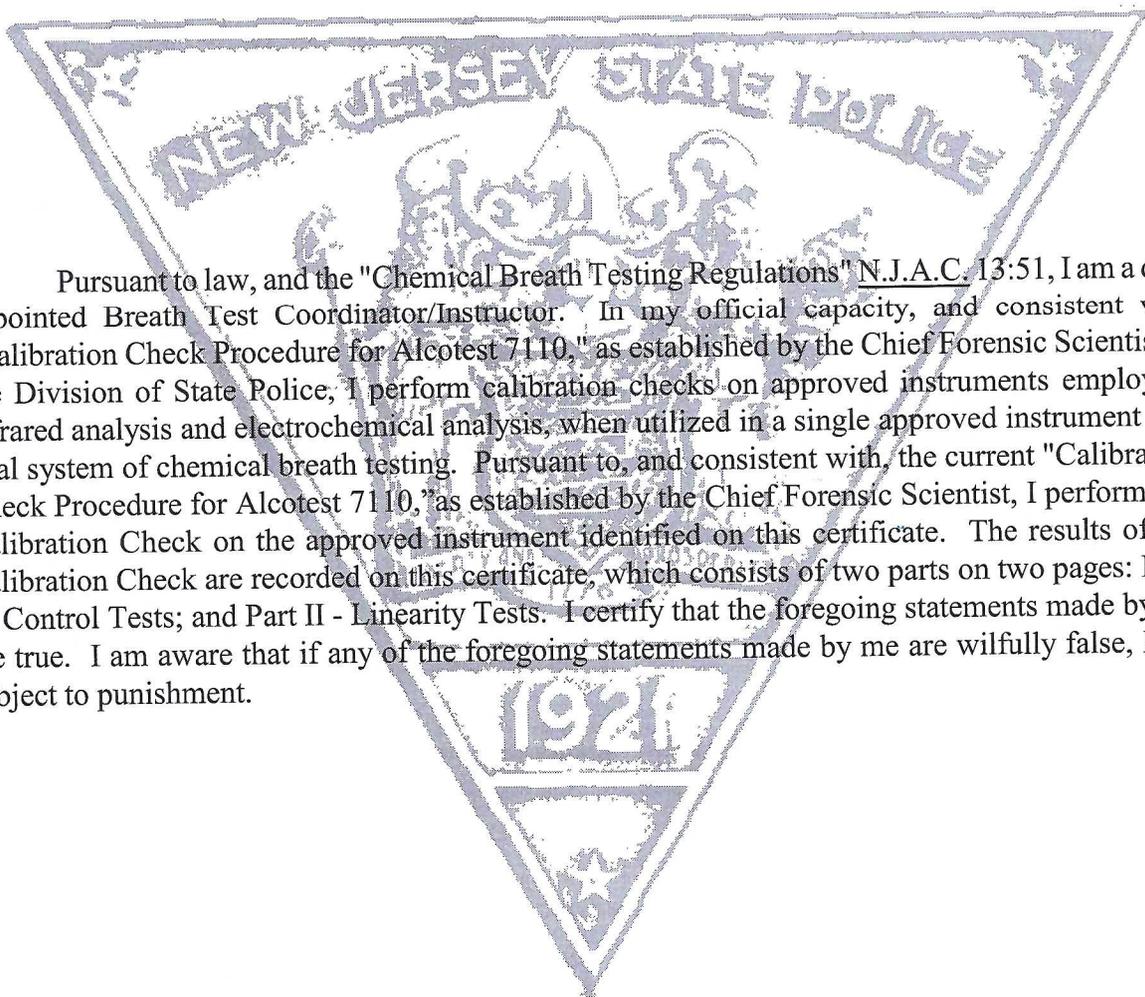
Alcotest 7110 MKIII-C  
Serial No.: ARXC-0091  
Location: CEDAR GROVE POLICE  
Calibration File No.: 00817 Calib. Date: 01/12/2021 Calib. No.: 00032  
Certification File No.: 00793 Cert. Date: 07/28/2020 Cert. No.: 00026  
Linearity File No.: 00794 Lin. Date: 07/28/2020 Lin. No.: 00026  
Solution File No.: 00814 Soln. Date: 12/25/2020 Soln. No.: 00204  
Sequential File No.: 00817 File Date: 01/12/2021

Calibrating Unit: WET Model No.: CU-34 Serial No.: DDZH-0064  
Control Solution %: 0.100% Expires: 10/16/2021  
Solution Control Lot: 19280 Bottle No.: 0981

## Coordinator

Last Name: ARROYO First Name: MARCOS MI: A.  
Signature: Sgt. Mr 6291 Badge No.: 6291  
Date: 01/12/2021

\*Black Key Temperature Probe Serial.....# DDHA P2-072 (M)  
\*Digital NIST Temperature Measuring System Serial.....# 191959036 (M)



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 I - Control Tests

### Equipment

Alcotest 7110 MKIII-C  
Location: CEDAR GROVE POLICE  
Serial No.: ARXC-0091  
Calibration File No.: 00817  
Calib. Date: 01/12/2021  
Calib. No.: 00032  
Certification File No.: 00818  
Cert. Date: 01/12/2021  
Cert. No.: 00027  
Linearity File No.: 00794  
Lin. Date: 07/28/2020  
Lin. No.: 00026  
Solution File No.: 00814  
Soln. Date: 12/25/2020  
Soln. No.: 00204  
Sequential File No.: 00818  
File Date: 01/12/2021

Calibrating Unit: WET  
Control Solution %: 0.100%  
Solution Control Lot: 19280  
Model No.: CU-34  
Serial No.: DDZH-0064  
Expires: 10/16/2021  
Bottle No.: 0981

Function	Result	Time	Temperature	Comment(s)
	%BAC	HH:MM	Simulator (°C)	or Error(s)
Ambient Air Blank	0.000%	09:26S		
Control 1 EC	0.099%	09:26S	33.8°C	*** TEST PASSED ***
Control 1 IR	0.099%	09:26S	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:27S		
Control 2 EC	0.099%	09:28S	33.8°C	*** TEST PASSED ***
Control 2 IR	0.099%	09:28S	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:28S		
Control 3 EC	0.099%	09:29S	33.8°C	*** TEST PASSED ***
Control 3 IR	0.099%	09:29S	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:30S		

All tests within acceptable tolerance.

### Coordinator

Last Name: ARROYO  
First Name: MARCOS  
MI: A.

Signature: Sgt. Mr. Coza  
Badge No.: 6291  
Date: 01/12/2021

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

Alcotest 7110 MKIII-C  
Location: CEDAR GROVE POLICE  
Calibration File No.: 00817  
Certification File No.: 00818  
Linearity File No.: 00819  
Solution File No.: 00814  
Sequential File No.: 00819

Serial No.: ARXC-0091

Calib. Date: 01/12/2021  
Cert. Date: 01/12/2021  
Lin. Date: 01/12/2021  
Soln. Date: 12/25/2020  
File Date: 01/12/2021

Calib. No.: 00032  
Cert. No.: 00027  
Lin. No.: 00027  
Soln. No.: 00204

Calibrating Unit: WET  
Control Solution %: 0.040%  
Solution Control Lot: 19310

Model No.: CU-34

Serial No.: DDWE S3-0172  
Expires: 11/04/2021  
Bottle No.: 1154

Calibrating Unit: WET  
Control Solution %: 0.080%  
Solution Control Lot: 19320

Model No.: CU-34

Serial No.: DDXD S3-0181  
Expires: 11/11/2021  
Bottle No.: 0564

Calibrating Unit: WET  
Control Solution %: 0.160%  
Solution Control Lot: 19360

Model No.: CU-34

Serial No.: DDWE S3-0200  
Expires: 12/02/2021  
Bottle No.: 0746

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	09:34S		
Control 1 EC	0.040%	09:35S	34.0°C	*** TEST PASSED ***
Control 1 IR	0.040%	09:35S	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:37S		
Control 2 EC	0.040%	09:37S	34.0°C	*** TEST PASSED ***
Control 2 IR	0.040%	09:37S	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:39S		
Control 3 EC	0.080%	09:39S	34.0°C	*** TEST PASSED ***
Control 3 IR	0.080%	09:39S	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:41S		
Control 4 EC	0.080%	09:42S	34.0°C	*** TEST PASSED ***
Control 4 IR	0.079%	09:42S	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:43S		
Control 5 EC	0.160%	09:44S	34.0°C	*** TEST PASSED ***
Control 5 IR	0.160%	09:44S	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:46S		
Control 6 EC	0.156%	09:46S	34.0°C	*** TEST PASSED ***
Control 6 IR	0.159%	09:46S	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:48S		

All tests within acceptable tolerance.

### Coordinator

Last Name: ARROYO

First Name: MARCOS

MI: A.

Signature: Sgt. Mr. Arroyo

Badge No.: 6291

Date: 01/12/2021

# Calibrating Unit

## New Standard Solution Report

<b>Equipment</b>	Alcotest 7110 MKIII-C	Serial No.: ARXC-0091
Location:	CEDAR GROVE POLICE	
Calibration File No.:	00817	Calib. Date: 01/12/2021
Certification File No.:	00818	Calib. No.: 00032
Linearity File No.:	00819	Cert. Date: 01/12/2021
Solution File No.:	00820	Cert. No.: 00027
Sequential File No.:	00820	Lin. Date: 01/12/2021
		Lin. No.: 00027
		Soln. Date: 01/12/2021
		Soln. No.: 00205
		File Date: 01/12/2021
Calibrating Unit:	WET	Model No.: CU-34
Control Solution %:	0.100%	Serial No.: DDZH-0064
Solution Control Lot:	20390	Expires: 09/02/2022
		Bottle No.: 1050

Function	Result	Time	Temperature	Comment(s)
	%BAC	HH:MM	Simulator (°C)	or Error(s)
Ambient Air Blank	0.000%	10:51S		
Control 1 EC	0.100%	10:52S	33.8°C	*** TEST PASSED ***
Control 1 IR	0.100%	10:52S	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:53S		
Control 2 EC	0.099%	10:53S	33.8°C	*** TEST PASSED ***
Control 2 IR	0.099%	10:53S	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:54S		
Control 3 EC	0.099%	10:55S	33.8°C	*** TEST PASSED ***
Control 3 IR	0.100%	10:55S	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:56S		

All tests within acceptable tolerance.

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

Temperature Probe Serial Number: DDXKP2-3210

**Changed By:**

Last Name: ARROYO

First Name: MARCOS

MI: A.

Signature: Sgt. M. Arroyo

Badge No.: 6291

Date: 01/12/2021

**Alcotest 7110 MKIII-C Calibration  
NIST-Traceable Digital Thermometer Readings**

**Coordinator:**

Sgt. Marcos Arroyo  
Name

6291  
Badge No.

**Location:**

CEDAR GROVE POLICE  
Agency

ARXC-0091  
Alcotest Serial No.

**Equipment:**

191959 036  
Digital NIST Temperature Measuring System Serial No.

Simulator Solution Concentration	CU-34 Simulator Serial No.	Time Simulators Started to Heat	Time Temp. Reading Obtained	Temp. Reading on NIST Traceable Thermometer
0.04%	DDWES3-0172	08:10s	09:11s	33.9°C
0.08%	DDXD53-0181	08:10s	09:12s	34.0°C
0.10%	DDZ1A-0064	08:10s	09:15s	34.0°C
0.16%	DDWES3-0200	08:10s	09:17s	34.0°C

Pursuant to law and the "Chemical Breath Testing Regulations" established at N.J.A.C. 13:51, I am a duly appointed Breath Test Coordinator/Instructor. In my official capacity and consistent with the "Calibration Check Procedure for Alcotest 7110" as established by the Chief Forensic Scientist of the Division of State Police, I perform calibration checks on Alcotest 7110 MKIII-C instruments. Pursuant to and consistent with the current "Calibration Check Procedure for Alcotest 7110", I performed a Calibration Check Procedure on the Alcotest 7110 MKIII-C instrument identified on this certificate. Pursuant to the current "Calibration Check Procedure for Alcotest 7110", I used the Digital NIST-traceable Temperature Measuring System identified on this certificate to confirm that the temperatures of the 0.10%, 0.04%, 0.08%, and 0.16% Simulator Solutions used in the respective CU-34 Simulators identified on this certificate, were 34.0 degrees Celsius  $\pm$  0.2 degrees Celsius. I hereby certify that I truthfully recorded on this certificate the temperatures of each of the simulator solutions as shown on the Digital NIST-traceable Temperature Measuring System thermometer. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

Sgt. M Arroyo 6291  
Coordinator's Signature

01/12/2021  
Date

**Dräger**

**Alcotest<sup>®</sup> 7110 MKIII-G**

**CERTIFICATE OF ACCURACY**

This is to certify that the Alcotest 7110 MKIII-G has been tested for accuracy and found to be in compliance with the National Highway Traffic Safety Administration Standard for evidential breath testing devices. The Alcotest 7110 MKIII-G is compliant with the Federal Motor Vehicle Safety Standard FMVSS 48854, 48855 and 48856. The manufacturer recommends accuracy verification of this instrument within 12 months of the calibration date below, or sooner, according to your State Specifications.

Certification Date  
5-13

SERIAL NUMBER  
AKXC-0091

Dräger Safety Diagnostics, Inc. BC



# Calibration complies with ISO/IEC 17025, ANSI/NC SL Z540-1, and 9001



Cert. No.: 4000-10177855

## 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: 191959036 Manufacturer: Control Company

### Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath	93139		
Thermistor Module	A17118	20 Apr 2019	1000424560
Thermistor Module	A27129	10 Jan 2020	1000436202
Temperature Calibration Bath	A73332		
Temperature Probe	3039	08 May 2019	6-B7F4L-20-1
Temperature Calibration Bath	A79341		
Temperature Probe	5394	29 Jan 2020	B9124038
Temperature Calibration Bath	B16388		
Temperature Probe	5267	28 Jan 2020	B9124036

### Certificate Information:

Technician: 104 Procedure: CAL-06 Cal Date: 13 Feb 2019 Cal Due Date: 13 Feb 2021  
Test Conditions: 38.85%RH 24.21°C 1023mBar

### Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C	N.A.	N.A.		-0.002	0.001	Y	-0.052	0.048	0.0087	>4:1
°C	N.A.	N.A.		24.999	25.000	Y	24.949	25.049	0.0087	>4:1
°C	N.A.	N.A.		50.001	50.001	Y	49.951	50.051	0.0087	>4:1
°C	N.A.	N.A.		100.002	99.997	Y	99.952	100.052	0.0087	>4:1

This certificate indicates Traceability to standards provided by (NIST) National Institute of Standards and Technology and/or a National Standards Laboratory.

A Test Uncertainty 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 test 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;

*Nicol Rodriguez*  
Nicol Rodriguez, Quality Manager

*Aaron Judice*  
Aaron Judice, Technical Manager

Note :

### 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 Thermometer 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 sales@control3.com www.control3.com

Control Company is an ISO/IEC 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 GL, Certificate No. CERT-01805-2006-AQ-HOU-RvA.  
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).



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



Cert. No.: 4000-10177855

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**Traceable® Certificate of Calibration for Digital Thermometer**

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

Control Company is an ISO/IEC 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 GL, Certificate No. CERT-01805-2008-AQ-HOU-RvA.  
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

**Dräger**

**Alcotest 7110 Temperature Probe**

**CERTIFICATE OF ACCURACY**

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with instrumentation that is traceable to the National Institute of Standards and Technology (NIST). The manufacturer recommends accuracy verification of the Temperature Probe within 12 months of the certification date below, or sooner, according to your state's specifications. For accurate temperature readings, the probe value on this certificate, noted below, must be programmed into the Alcotest 7110.

Serial Number Temp Probe: Certification Date: Next Certification Due:

DDHHP2-072 6-3-20 6-3-21

Probe Value:

104 Draeger, Inc. MAB

**Dräger**

**Simulator**

**CERTIFICATE OF ACCURACY**

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to calibrate Evidential Breath Testers. (F.R. Vol. 59 No. 249 12/19/94 Notices) Draeger, Inc.

Model: ALCOTEST CU34

Model: MARK IIA

X-Cal 2000 (Alcosim)

Other: \_\_\_\_\_

Serial Number:

DDWES3-0172

Certification Date:

6-2-20

Technician:

MAB

Re-Certification Due Date:

6-2-21

**Dräger**

**Simulator**

**CERTIFICATE OF ACCURACY**

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to calibrate Evidential Breath Testers.  
(F.R. Vol. 59 No. 249 12/19/94 Notices)  
Draeger, Inc.

Model: ALCOTEST CU34

Model: MARK IIA

X-Cal 2000 (Alcosim)

Other: \_\_\_\_\_

Serial Number:

DDXDS3-0181

Certification Date:

6-2-20

Technician:

MB

Re-Certification Due Date:

6-2-21

**Dräger**

**Simulator**

**CERTIFICATE OF ACCURACY**

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to calibrate Evidential Breath Testers.  
(F.R. Vol. 59 No. 249 12/19/94 Notices)  
Draeger, Inc.

Model: ALCOTEST CU34

Model: MARK IIA

X-Cal 2000 (Alcosim)

Other: \_\_\_\_\_

Serial Number:

DDWES3-0200

Certification Date:

6-3-20

Technician:

MB

Re-Certification Due Date:

6-3-21

**Dräger**

**Simulator**

**CERTIFICATE OF ACCURACY**

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to Calibrate Evidential Breath Testers.  
(F.R. Vol. 59 No. 249 12/19/94 Notices)  
Dräger, Inc.

- Model: ALCOTEST CU34
- Model: MARK IIA
- X-Cal 2000 (Alcosim)
- Other: \_\_\_\_\_

Serial Number:

DDZH-0064

Certification Date:

1/30/20

Technician:

B5 / [Signature]

Re-Certification Due Date:

1/30/21

**Dräger**

**Alcotest 7110 Temperature Probe**

**CERTIFICATE OF ACCURACY**

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with instrumentation that is traceable to the National Institute of Standards and Technology (NIST). The manufacturer recommends accuracy verification of the Temperature Probe within 12 months of the certification date below, or sooner, according to your state's specifications. For accurate temperature readings, the probe value on this certificate, noted below, must be programmed into the Alcotest 7110.

Serial Number Temp Probe:

DDXKP2-321

Certification Date:

2/3/20

Next Certification Due:

2/3/21

Probe Value:

96

Dräger, Inc.

B5

[Signature]



State of New Jersey

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

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Governor

SHEILA Y. OLIVER
Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

CERTIFICATION OF ANALYSIS
0.100 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: 10/25/2019

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 19280

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1212 to 0.1223 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 October 16, 2021.

As Assistant Chief Forensic 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.

Michael Kennedy
Michael Kennedy
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 28 day of October, 2019.

Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522
My Commission Expires 8/13/2024



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SHEILA Y. OLIVER
Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

CERTIFICATION OF ANALYSIS
0.040 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: 11/14/2019

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 19310

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.0485 to 0.0489 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 November 04, 2021.

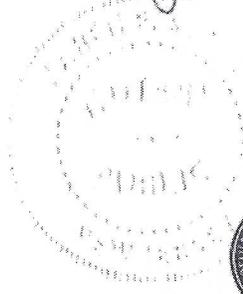
As Assistant Chief Forensic Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments 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.

Michael Kennedy
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 15 day of November, 2019.

Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522
My Commission Expires 8/13/2024



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Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

CERTIFICATION OF ANALYSIS
0.080 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: 11/20/2019

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 19320

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.0971 to 0.0985 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 November 11, 2021.

As Assistant Chief Forensic 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.

Michael Kennedy
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 21 day of November, 2019.
Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522
My Commission Expires 8/13/2024



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State of New Jersey

OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
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PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

CERTIFICATION OF ANALYSIS
0.160 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, Inc.

ANALYSIS DATE: 12/11/2019

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 19360

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1936 to 0.1956 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 December 02, 2021.

As Assistant Chief Forensic 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.

Michael Kennedy
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 18 day of December, 2019.

Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522
My Commission Expires 8/13/2024



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Governor

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Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

CERTIFICATION OF ANALYSIS
0.100 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, Inc.

ANALYSIS DATE: 09/17/2020

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 20390

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1212 to 0.1223 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 September 2, 2022.

As Assistant Chief Forensic 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.

Michael Kennedy
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences

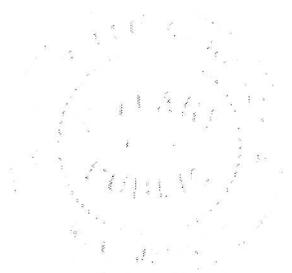
Sworn to and subscribed before me this 18th day of SEPTEMBER, 2020.

Notary signature and name



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ORIGINAL COURSE DATES

DATE	Refresher Course PLACE	INSTRUCTOR
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

S.P. 293B (Rev. 07/07)

ORIGINAL COURSE DATES

DATE	Refresher Course PLACE	INSTRUCTOR
1. 8-13-08	B.C.P.A.	<i>[Signature]</i>
2. 2/2/10	SAYREVILLE PD	<i>[Signature]</i>
3. 2-7-12	BERGEN C.O.P.A.	<i>[Signature]</i>
4. 9-2-14	BERGEN C.O.P.A.	<i>[Signature]</i>
5. 6/30/16	BLTA	<i>[Signature]</i>
6. 12-4-18	SAYREVILLE PD	<i>[Signature]</i>
7.		
8.		
9.		

S.P. 293B (Rev. 12/04)

ORIGINAL COURSE DATES

DATE	Refresher Course PLACE	INSTRUCTOR
1. 1/10/06	OCPA	<i>[Signature]</i>
2. 9-5-08	BLPR	<i>[Signature]</i>
3.		
4.		
5.		
6.		
7.		
8.		
9.		

S.P. 293B (Rev. 06/03)

DEPARTMENT OF  
**Traffic and Public Safety**  
This is to certify that

**Marcos A. Arroyo**  
New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL-BREATH ANALYSES PURSUANT TO CHAPTER 143 OF THE LAWS OF 1966 IN THE OPERATION OF THE **Breath Test Coordinator/Instructor** A METHOD TO DETERMINE INTOXICATION. GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 18th DAY OF May TWO THOUSAND AND Nine

*[Signature]*  
SUPERINTENDENT  
NEW JERSEY STATE POLICE

*[Signature]*  
ATTORNEY GENERAL  
STATE OF NEW JERSEY

DEPARTMENT OF  
**Traffic and Public Safety**  
This is to certify that

**MARCOS A. ARROYO JR.**  
New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL-BREATH ANALYSES PURSUANT TO CHAPTER 143 OF THE LAWS OF 1966 IN THE OPERATION OF THE **ALGOTEST 7110 MKIIC** A METHOD TO DETERMINE INTOXICATION. GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 28th DAY OF February TWO THOUSAND AND FIVE

*[Signature]*  
SUPERINTENDENT  
NEW JERSEY STATE POLICE

*[Signature]*  
ATTORNEY GENERAL  
STATE OF NEW JERSEY

DEPARTMENT OF  
**Traffic and Public Safety**  
This is to certify that

**Marcos A. Arroyo**  
New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL-BREATH ANALYSES PURSUANT TO CHAPTER 143 OF THE LAWS OF 1966 IN THE OPERATION OF THE **Breathalyzer** A METHOD TO DETERMINE INTOXICATION. GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 29th DAY OF October TWO THOUSAND AND THREE

*[Signature]*  
SUPERINTENDENT  
NEW JERSEY STATE POLICE

*[Signature]*  
ATTORNEY GENERAL  
STATE OF NEW JERSEY