Alcotest 7110 Calibration Record

Equipment Alcotest 7110 MKIII-C
Location: VERONA POLICE DEPT.
Serial No.: ARWM-0092

Calibration File No.:	00531	Calib. Date: 04/13/2018	Calib. No.: 00032
Certification File No.:	00491	Cert. Date: 10/24/2017	Cert. No.: 00022
Linearity File No.:	00492	Lin. Date: 10/24/2017	Lin. No.: 00022
Solution File No.:	00524	Soln. Date: 03/17/2018	Soln. No.: 00158
Sequential File No.:	00531	File Date: 04/13/2018	
Calibrating Unit:	WET	Model No.: CU-34	Serial No.: DDXA S3-0068
Control Solution %:	0.100%		Expires: 10/10/2018
Solution Control Lot:	16270		Bottle No.: 0471

Coordinator
Last Name: ARROYO First Name: MARCOS MI: A.
Signature: Sgt. M Arroyo Badge No.: 6291
Date: 04/13/2018

*Black Key Temperature Probe Serial.....# DDHHPZ-0072

*Digital NIST Temperature Measuring System Serial.....# 170297902

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 Serial No.: ARWM-0092

Location: VERONA POLICE DEPT.

Calibration File No.: 00531 Calib. Date: 04/13/2018 Calib. No.: 00032
Certification File No.: 00532 Cert. Date: 04/13/2018 Cert. No.: 00023
Linearity File No.: 00492 Lin. Date: 10/24/2017 Lin. No.: 00022
Solution File No.: 00524 Soln. Date: 03/17/2018 Soln. No.: 00158
Sequential File No.: 00532 File Date: 04/13/2018

Calibrating Unit: WET Model No.: CU-34 Serial No.: DDXA S3-0068
Control Solution %: 0.100% Expires: 10/10/2018
Solution Control Lot: 16270 Bottle No.: 0471

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	10:12D		
Control 1 EC	0.099%	10:12D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.099%	10:12D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:13D		
Control 2 EC	0.099%	10:14D	34.0°C	*** TEST PASSED ***
Control 2 IR	0.100%	10:14D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:15D		
Control 3 EC	0.099%	10:15D	34.0°C	*** TEST PASSED ***
Control 3 IR	0.099%	10:15D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:16D		

All tests within acceptable tolerance.

Coordinator

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

Signature: Sgt MA 6291 Badge No.: 6291

Date: 04/13/2018

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 Alcotest 7110 MKIII-C — Serial No.: ARWM-0092

Location: VERONA POLICE DEPT.

Calibration File No.:	00531	Calib. Date:	04/13/2018	Calib. No.:	00032
Certification File No.:	00532	Cert. Date:	04/13/2018	Cert. No.:	00023
Linearity File No.:	00533	Lin. Date:	04/13/2018	Lin. No.:	00023
Solution File No.:	00524	Soln. Date:	03/17/2018	Soln. No.:	00158
Sequential File No.:	00533	File Date:	04/13/2018		

Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDWE S3-0172
Control Solution %:	0.040%			Expires:	08/10/2019
Solution Control Lot:	17240			Bottle No.:	0630
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDXD S3-0181
Control Solution %:	0.080%			Expires:	08/15/2019
Solution Control Lot:	17250			Bottle No.:	0813
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDWE S3-0200
Control Solution %:	0.160%			Expires:	08/21/2019
Solution Control Lot:	17260			Bottle No.:	0087

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	10:23D		
Control 1 EC	0.041%	10:23D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.040%	10:23D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:25D		
Control 2 EC	0.041%	10:26D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.038%	10:26D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:27D		
Control 3 EC	0.080%	10:28D	34.0°C	*** TEST PASSED ***
Control 3 IR	0.077%	10:28D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:30D		
Control 4 EC	0.080%	10:30D	34.0°C	*** TEST PASSED ***
Control 4 IR	0.077%	10:30D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:32D		
Control 5 EC	0.159%	10:33D	34.0°C	*** TEST PASSED ***
Control 5 IR	0.155%	10:33D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:35D		
Control 6 EC	0.159%	10:35D	33.9°C	*** TEST PASSED ***
Control 6 IR	0.155%	10:35D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:37D		

All tests within acceptable tolerance.

Coordinator

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

Signature: Sgt. M 6291 Badge No.: 6291

Date: 04/13/2018

Calibrating Unit
New Standard Solution Report

Equipment Alcotest 7110 MKIII-C — Serial No.: ARWM-0092
Location: VERONA POLICE DEPT.

Calibration File No.:	00531	Calib. Date: 04/13/2018	Calib. No.: 00032
Certification File No.:	00532	Cert. Date: 04/13/2018	Cert. No.: 00023
Linearity File No.:	00533	Lin. Date: 04/13/2018	Lin. No.: 00023
Solution File No.:	00534	Soln. Date: 04/13/2018	Soln. No.: 00159
Sequential File No.:	00534	File Date: 04/13/2018	

Calibrating Unit: WET — Model No.: CU-34 — Serial No.: DDXA S3-0068
Control Solution %: 0.100% — Expires: 10/17/2019
Solution Control Lot: 17360 — Bottle No.: 0136

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	11:41D		
Control 1 EC	0.099%	11:41D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.099%	11:41D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	11:42D		
Control 2 EC	0.099%	11:43D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.099%	11:43D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	11:44D		
Control 3 EC	0.099%	11:44D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.098%	11:44D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	11:45D		

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: DDWJ PZ-210(M)

Changed By:
Last Name: ARROYO — First Name: MARCOS — MI: A.
Signature: Sgt. M 6291 — Badge No.: 6291
Date: 04/13/2018

Dräger

Alcotest® 7110 MKIII-C

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 MKIII-C 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 MKIII-C is compliant as a "mobile" and "nonmobile" EBT with 49 FR 48854, 49 FR 48864 and 58 FR 48705. 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: 3-14-16

SERIAL NUMBER: ARWM-0092

Draeger Safety Diagnostics, Inc.

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

Calibration Certificate No. 1750.01

Cert. No.: 4000-8483350

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: 170297902 Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC-231	A79341		
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 Procedure: CAL-06 Cal Date: 4/22/17 Due Date: 4/22/19

Test Conditions: 23.9°C 61.0 %RH 1012 mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C		N.A.		0.002	0.001	Y	-0.048	0.052	0.010	>4:1
°C		N.A.		25.000	25.000	Y	24.950	25.050	0.010	>4:1
°C		N.A.		49.998	50.001	Y	49.948	50.048	0.010	>4:1
°C		N.A.		99.998	100.001	Y	99.948	100.048	0.010	>4:1

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

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; Date=MM/DD/YY

Nicol 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

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with 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:
DDHHP9-072	9-22-17	9-22-18

Probe Value: 102

Draeger, Inc. BC

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
- ○ Other: _____

Serial Number: DDUE53-0172

Certification Date: 9-27-17

Technician: BC

Re-Certification Due Date: 9-27-18

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
- ○ Other: _____

Serial Number: DDXD 53-0181

Certification Date: 9-26-17

Technician: BC

Re-Certification Due Date: 9-26-18

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.

Ø Model: ALCOTEST CU34
○ Model: MARK IIA
○ Other: _____

Serial Number: DDWES3-0200

Certification Date: 9-26-17

Technician: BC

Re-Certification Due Date: 9-26-18

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
- ○ Other: _____

Serial Number: DDXA 53-0068

Certification Date: 3-8-2018

Technician: SP

Re-Certification Due Date: 3-8-2019

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with 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: DDWSP2-210

Certification Date: 3-6-18

Next Certification Due: 3-6-19

Probe Value: 99

Draeger, Inc. BC

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

CHRISTOPHER S. PORRINO
Attorney 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:** 10/19/2016

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 16270

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1203 to 0.1220 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 10, 2018.

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 20 day of October, 2016.

Notary

JOHN R LEAVER
ID # 2207138
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires Dec. 14, 2017

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

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 0.0483 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 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, 2017.

Mary E. McLaughlin
Notary

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

State of New Jersey

CHRIS CHRISTIE
Governor

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
Attorney 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 August 15, 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 11 day of September, 2017.

Notary

PETER F. MURPHY IV
My Commission Expires
August 1, 2019

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

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 August 21, 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 13 day of September, 2017.

Notary

PETER F MURPHY IV
My Commission Expires
August 1, 2019

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

CHRISTOPHER S. PORRINO
Attorney General

COLONEL PATRICK J. CALLAHAN
Acting 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:** 11/01/2017

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 17360

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1197 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 October 17, 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 2nd day of November, 2017.

Mary E. McLaughlin
Notary

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

ORIGINAL COURSE DATES _____

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

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

DEPARTMENT OF
Law 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 142 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 1st DAY OF May
TWO THOUSAND AND Nine

SUPERINTENDENT
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

	DATE	Refresher Course PLACE	INSTRUCTOR
1.	8-13-08	B.C.P.A.	
2.	2/2/10	STRATFORD PD	
3.	2-7-12	BERGEN CoPA	
4.	9-2-14	BERGEN CoPA	
5.	6/30/16	BCPA	
6.			
7.			
8.			
9.			

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

DEPARTMENT OF
Law 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 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE ALCOTEST 7110 MKIIIC
A METHOD TO DETERMINE INTOXICATION.
GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 28th DAY OF February
TWO THOUSAND AND FIVE

SUPERINTENDENT
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

	DATE	Refresher Course PLACE	INSTRUCTOR
1.	2006	OCPA	
2.	9-5-08	BLR	
3.			
4.			
5.			
6.			
7.			
8.			
9.			

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

DEPARTMENT OF
Law 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 142 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 four

SUPERINTENDENT
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

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
- ○ Other: _____

Serial Number: DDXA 53-0068

Certification Date: 3-8-2018

Technician: SP

Re-Certification Due Date: 3-8-2019

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with 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: DDWSP2-210

Certification Date: 3-6-18

Next Certification Due: 3-6-19

Probe Value: 99

Draeger, Inc. BC

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

CHRISTOPHER S. PORRINO
Attorney General

COLONEL PATRICK J. CALLAHAN
Acting 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:** 11/01/2017

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 17360

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1197 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 October 17, 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 2nd day of November, 2017.

Notary

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

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lieutenant Governor

State of New Jersey
OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF CRIMINAL JUSTICE
PO BOX 085
TRENTON, NJ 08625-0085
TELEPHONE: (609) 984-6500

GURBIR S. GREWAL
Attorney General

ELIE HONIG
Director

February 23, 2018

TO: All County Prosecutors
Colonel Patrick Callahan, Acting Superintendent, New Jersey Division of State Police
All Municipal Prosecutors
All Law Enforcement Executives

Re: Temporary Procedure for Evidential Breath Test Utilizing Alcotest Instrument for Daylight Savings Time Period March 11-April 1, 2018

In 2007, the federal Energy Policy Act, 42 U.S.C. §15801, changed the dates of Daylight Savings Time to begin on the second Sunday in March (March 11, 2018) instead of the first Sunday in April (April 2, 2018).

The Alcotest 7110 MKIII-C New Jersey firmware version 3.11 is configured to automatically convert to Daylight Savings Time based on the pre-2007 timetable. Instead of changing to Daylight Savings Time on March 11, 2018, the Alcotest 7110 MK III-C will change on April 1, 2018. Prior to April 1, 2018, the instrument will continue to record all times, both printed and electronic, with an "S" suffix, indicating Standard Time. At 02:00 hours (2:00 a.m.) on April 1, 2018, the instrument's time recording will automatically change to a "D" suffix, indicating Daylight Savings Time.

The instrument's recordation of Standard Time rather than Daylight Savings Time does not affect the method of analysis or the accuracy of the readings. All current procedures for the processing of arrested intoxicated drivers are to continue, including the 20 minute observation period currently part of the regular protocol. However, because the Alcotest is set to read in Standard Time during the period of time between March 11 and April 1, Breath Test Operators should enter the time of arrest in the Alcotest instrument in Standard Time (one hour earlier than Daylight Savings Time). Entries on all other documents related to the arrest (*e.g.*, police reports) should reflect Daylight Savings Time effective March **11**, 2018.

Any questions regarding this procedure can be directed to your New Jersey State Police Breath Test Coordinator or the Municipal Prosecutor Supervisor within the County Prosecutor's Office.

Very truly yours,

Analisa S. Holmes
Deputy Attorney General
Chief, Prosecutors Supervision & Training Bureau

c: Assistant Attorney General Elie Honig, Director, Division of Criminal Justice
Lieutenant Thomas Snyder, NJSP Alcohol & Drug Testing Unit

Alcotest 7110 Calibration Record

Equipment

	Alcotest 7110 MKIII-C			Serial No.:	ARWM-0092
Location:	VERONA POLICE DEPT.				
Calibration File No.:	00552	Calib. Date:	10/11/2018	Calib. No.:	00033
Certification File No.:	00532	Cert. Date:	04/13/2018	Cert. No.:	00023
Linearity File No.:	00533	Lin. Date:	04/13/2018	Lin. No.:	00023
Solution File No.:	00550	Soln. Date:	09/29/2018	Soln. No.:	00166
Sequential File No.:	00552	File Date:	10/11/2018		
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDXA S3-0065
Control Solution %:	0.100%			Expires:	08/07/2019
Solution Control Lot:	17230			Bottle No.:	0699

Coordinator

Last Name: MULCH First Name: CHRISTOPHER MI: C.

Signature: Sgt. C. M #6806 Badge No.: 6806

Date: 10/11/2018

*Black Key Temperature Probe Serial.....# DDUN P2-237

*Digital NIST Temperature Measuring System Serial.....# 170 297 885

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 Serial No.: ARWM-0092
Location: VERONA POLICE DEPT.

Calibration File No.:	00552	Calib. Date:	10/11/2018	Calib. No.:	00033
Certification File No.:	00553	Cert. Date:	10/11/2018	Cert. No.:	00024
Linearity File No.:	00533	Lin. Date:	04/13/2018	Lin. No.:	00023
Solution File No.:	00550	Soln. Date:	09/29/2018	Soln. No.:	00166
Sequential File No.:	00553	File Date:	10/11/2018		

Calibrating Unit: WET Model No.: CU-34 Serial No.: DDXA S3-0065
Control Solution %: 0.100% Expires: 08/07/2019
Solution Control Lot: 17230 Bottle No.: 0699

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	12:39D		
Control 1 EC	0.099%	12:40D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.099%	12:40D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	12:40D		
Control 2 EC	0.099%	12:41D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.098%	12:41D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	12:42D		
Control 3 EC	0.100%	12:42D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.100%	12:42D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	12:43D		

All tests within acceptable tolerance.

Coordinator
Last Name: MULCH First Name: CHRISTOPHER MI: C.

Signature: Sgt. Mulch #6806 Badge No.: 6806
Date: 10/11/2018

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	Alcotest 7110 MKIII-C			Serial No.:	ARWM-0092
Location:	VERONA POLICE DEPT.				
Calibration File No.:	00552	Calib. Date:	10/11/2018	Calib. No.:	00033
Certification File No.:	00553	Cert. Date:	10/11/2018	Cert. No.:	00024
Linearity File No.:	00554	Lin. Date:	10/11/2018	Lin. No.:	00024
Solution File No.:	00550	Soln. Date:	09/29/2018	Soln. No.:	00166
Sequential File No.:	00554	File Date:	10/11/2018		
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDNL S3-0003
Control Solution %:	0.040%			Expires:	08/10/2019
Solution Control Lot:	17240			Bottle No.:	0475
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDRK S3-0006
Control Solution %:	0.080%			Expires:	08/15/2019
Solution Control Lot:	17250			Bottle No.:	0964
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDSC S3-0012
Control Solution %:	0.160%			Expires:	08/21/2019
Solution Control Lot:	17260			Bottle No.:	0556

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	13:05D		
Control 1 EC	0.041%	13:06D	33.8°C	*** TEST PASSED ***
Control 1 IR	0.039%	13:06D	33.8°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	13:07D		
Control 2 EC	0.040%	13:08D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.038%	13:08D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	13:09D		
Control 3 EC	0.080%	13:10D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.077%	13:10D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	13:12D		
Control 4 EC	0.078%	13:12D	33.9°C	*** TEST PASSED ***
Control 4 IR	0.076%	13:12D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	13:14D		
Control 5 EC	0.157%	13:15D	33.9°C	*** TEST PASSED ***
Control 5 IR	0.153%	13:15D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	13:16D		
Control 6 EC	0.158%	13:17D	34.0°C	*** TEST PASSED ***
Control 6 IR	0.154%	13:17D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	13:19D		

All tests within acceptable tolerance.

Coordinator

Last Name: MULCH First Name: CHRISTOPHER MI: C.

Signature: Sgt. Chris M #68a Badge No.: 6806

Date: 10/11/2018

Calibrating Unit
New Standard Solution Report

Equipment Alcotest 7110 MKIII-C — Serial No.: ARWM-0092
Location: VERONA POLICE DEPT.

Calibration File No.:	00552	Calib. Date: 10/11/2018	Calib. No.: 00033
Certification File No.:	00553	Cert. Date: 10/11/2018	Cert. No.: 00024
Linearity File No.:	00554	Lin. Date: 10/11/2018	Lin. No.: 00024
Solution File No.:	00555	Soln. Date: 10/11/2018	Soln. No.: 00167
Sequential File No.:	00555	File Date: 10/11/2018	

Calibrating Unit: WET — Model No.: CU-34 — Serial No.: DDXA S3-0065
Control Solution %: 0.100% — Expires: 05/10/2020
Solution Control Lot: 18150 — Bottle No.: 0599

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	14:28D		
Control 1 EC	0.100%	14:28D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.099%	14:28D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	14:29D		
Control 2 EC	0.099%	14:29D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.100%	14:29D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	14:30D		
Control 3 EC	0.099%	14:31D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.099%	14:31D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	14:31D		

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: DDWJ P2-208

Changed By:
Last Name: MULCH — First Name: CHRISTOPHER — MI: C.
Signature: Sgt C. M #6806 — Badge No.: 6806
Date: 10/11/2018

Dräger

Alcotest® 7110 MKIII-C

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 MKIII-C 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 MKIII-C is compliant as a "mobile" and "nonmobile" EBT with 49 FR 48854, 49 FR 48864 and 58 FR 48705. 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: 3-14-16

SERIAL NUMBER: ARWM-0092

Draeger Safety Diagnostics, Inc.

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

Calibration Certificate No. 1750.01

Cert. No.: 4000-8483333

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: 170297885 Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC-231	A79341		
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	B71O4024
Readout, Digital Thermometer	B5C344	3/12/18	B73T4035
Temperature Calibration Bath TC-275	B16388		
Thermistor Probe	5357	1/06/18	B71O4023
Readout, Digital Thermometer	B5C344	3/12/18	B73T4035

Certificate Information:

Technician: 104 Procedure: CAL-06 Cal Date: 4/22/17 Due Date: 4/22/19

Test Conditions: 23.9°C 61.0 %RH 1012 mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C		N.A.		0.002	0.001	Y	-0.048	0.052	0.010	>4:1
°C		N.A.		25.000	25.000	Y	24.950	25.050	0.010	>4:1
°C		N.A.		49.998	50.001	Y	49.948	50.048	0.010	>4:1
°C		N.A.		99.998	100.001	Y	99.948	100.048	0.010	>4:1

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

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; Date=MM/DD/YY

Nicol 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

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
- ○ Other: _____

Serial Number: DDNL53-0003

Certification Date: 7-23-18

Technician: BS

Re-Certification Due Date: 7-23-19

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
- ○ Other: _____

Serial Number: DDRK53-0006

Certification Date: 7-23-18

Technician: BS

Re-Certification Due Date: 7-23-19

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.

Ø Model: ALCOTEST CU34
O Model: MARK IIA
O Other: _____

Serial Number: DDSC 53-0012

Certification Date: 7-13-18

Technician: BS

Re-Certification Due Date: 7-13-19

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with 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: DDUP2-237

Certification Date: 7-12-18

Next Certification Due: 7-12-19

Probe Value: 105

Draeger, Inc. BS

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
- ○ Other: _____

Serial Number: DDXA53-0065

Certification Date:	Technician:	Re-Certification Due Date:
8-22-18	BS	8-22-19

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with 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:
DDWJ P2-208	8-23-18	8-23-19

Probe Value: 102

Draeger, Inc. BS

State of New Jersey

CHRIS CHRISTIE
Governor

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
Attorney 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 0.1202 to 0.1216 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.

Notary

PETER F MURPHY IV
My Commission Expires
August 1, 2019

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

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 0.0483 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 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, 2017.

Mary E. McLaughlin
Notary

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

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

CHRISTOPHER S. PORRINO
Attorney 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 August 15, 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 11 day of September, 2017.

Notary

PETER F MURPHY IV
My Commission Expires
August 1, 2019

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

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

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 August 21, 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 13 day of September, 2017.

Notary

PETER F MURPHY IV
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires
August 1, 2019

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

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

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:** 05/24/2018

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 18150

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 0.1239 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 May 10, 2020.

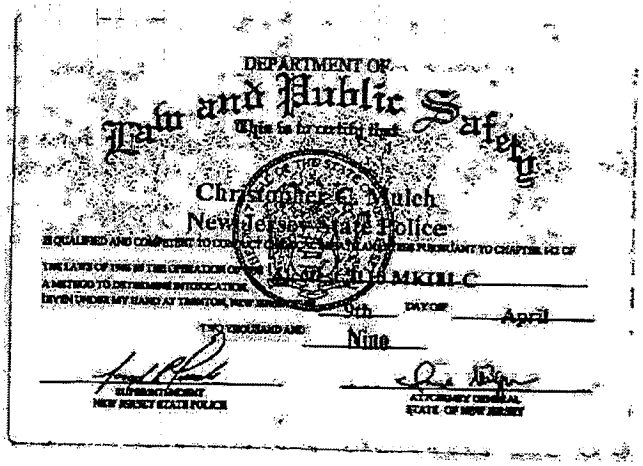
As Research Scientist for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment.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

Sworn to and subscribed before me this 29th day of May, 2018.

Notary

PETER F MURPHY IV
My Commission Expires
August 1, 2019



DEPARTMENT OF
Law and Public Safety

This is to certify that

Christopher G. Mulch
New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL ANALYSES PURSUANT TO CHAPTER 142 OF
THE LAWS OF 1966 OF THE OPERATION OF THE ALCOTEST 7110 MKIII-C
A METHOD TO DETERMINE INTOXICATION.
GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY, THIS 9th DAY OF April
TWO THOUSAND AND Nine

SUPERINTENDENT
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

Refresher Course

	DATE	PLACE	INSTRUCTOR
1.	06/28/11	BERGEN CO. PA	M. Rupp
2.	5-7-13	SAYREVILLE	D. Tarsano
3.	1/13/15	SAYREVILLE	R.
4.	9-16-17	BERGEN CO PA	
5.			
6.			
7.			
8.			
9.			

S.P. 2938 (Rev. 07/07)

DEPARTMENT OF

Law and Public Safety

This is to certify that

Christopher C. Mulch

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 BY THE OPERATION OF THE Breath Test Coordinator / Instructor A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY, THIS 9th DAY OF November TWO THOUSAND AND Eleven

SUPERINTENDENT
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

Refresher Course

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

S.P. 293B (Rev. 03/10)

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with 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:
DDWJP2-208	8-23-18	8-23-19

Probe Value: 102

Draeger, Inc. BS

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
- ○ Other: _____

Serial Number: DDXAS3-0065

Certification Date:	Technician:	Re-Certification Due Date:
8-22-18	BS	8-22-19