

ALCOTEST 9510 PARAMETER REPORT

Equipment

Serial No.: ARMH-0300
Firmware: 8326739 1.5
WinCE application: 8326738 2.9
Configuration: 8326737 3.10

Date: 04/08/2026
Time: 11:49:51

Parameter

min. blow time	5.0	s
min. breath volume for females of age 60+	1.2	L
min. breath volume for all other	1.5	L
min. blow flow	4.5	L/min
plateau detection limit	4	%
plateau detection start conc.	70	microgram/L
neg. flow detection (part. vacuum)	10.0	hPa
neg. flow detection sensitivity	10	
cal. gas abort volume	0.4	L
result-to-zero limit	0.0050	%BAC
ambient air check limit	0.0049	%BAC
interference det. d-criterion limit abs.	38	microgram/L
interference det. d-criterion limit rel.	10.0	%
interference det. t-criterion limit abs.	8	microgram/L
interference det. t-criterion limit rel.	2.1	%
IR CO2 offset	10	microgram/L
IR H2O offset	4	microgram/L
EC H2O offset	0	microgram/L
Value-based EC aging comp. on/off (1/0)	0	
Time-based EC aging comp. on/off (1/0)	1	
Time-based EC aging comp. per month	0.2	%
Time-based EC aging comp. maximum	3.0	%
EC fatigue comp. max. sum	15000	
EC fatigue comp. factor	50	
EC fatigue comp. minutes	180	
mouth alc. mark limit	500	
mouth alc. lower limit	30	
mouth alc. slope	6	
mouth alc. zero limit	50	
mouth alc. max. neg. sum	6	
mouth alc. max. 2nd derivative	35	

ALCOTEST 9510 CERTIFICATION REPORT - WET ADJUST (PART I)
Stratford Borough

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0300
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Wet Adjust Record

Wet Adjust File No.: 31 Wet Adjust Date: 04/08/2026 Wet Adjust No.: 1
Wet Adjust Time: 12:40:33

Concentration: 0.100 %
Adjusting Unit: X-Cal 2000 Adj. Unit Ser. No.: ARRL-0004 Adj. Unit Exp.: 01/15/2027
Solution Lot No.: 24220 Soln. Bottle No.: 913 Adjust Soln. Exp.: 06/18/2026

Preadjust Simulator Temp.: 34.01 degree C
Postadjust Simulator Temp.: 34.00 degree C

Result

Procedure completed successfully.

Coordinator

Last Name: Widener - First Name: William MI: F Badge No.: 7817

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

William Widener 7817

Signed:

Date: 04/08/2026

ID: 22

ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)
Stratford Borough

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0300
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Dry Adjust Record

Dry Adjust File No.: 32 Dry Adjust Date: 04/08/2026 Dry Adjust No.: 1
Dry Adjust Time: 12:57:37

Concentration: 0.100 %
Dry Gas Lot No.: 302-403034216 Adjust Gas Exp.: 04/30/2027
Barom. Model No.: Mensor CPG2300 Barom. Serial No.: 410013F5 Barom. Cert. Exp.: 08/25/2026
Pre-adjust Amb. Pressure: 1033 hPa Post-adjust Amb. Pressure: 1033 hPa

Result

Procedure completed successfully.

Coordinator

Last Name: Widener - First Name: William MI: F Badge No.: 7817

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TPK il New FW 7817

Signed:

Date: 04/08/2026

ID: 22

ALCOTEST 9510 CERTIFICATION REPORT - LINEARITY (PART III)
Stratford Borough

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0300
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Linearity Record

Linearity File No.: 33 Lin. Date: 04/08/2026 Lin. No.: 1

0.040% Dry Gas Lot No.: 302-402999655 Adjust. Gas Exp.: 03/20/2027
0.080% Dry Gas Lot No.: 302-403008479 Adjust. Gas Exp.: 03/28/2027
0.160% Dry Gas Lot No.: 302-402926858 Adjust. Gas Exp.: 12/19/2026
0.300% Dry Gas Lot No.: 302-402755077 Adjust. Gas Exp.: 05/26/2026

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	13:12:20		*TEST PASSED*
Control .04 Test 1 EC	0.038	13:12:56	1032	*TEST PASSED*
Control .04 Test 1 IR	0.038	13:12:56	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:13:58		*TEST PASSED*
Control .04 Test 2 EC	0.039	13:14:11	1032	*TEST PASSED*
Control .04 Test 2 IR	0.040	13:14:11	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:19:55		*TEST PASSED*
Control .08 Test 3 EC	0.077	13:20:31	1032	*TEST PASSED*
Control .08 Test 3 IR	0.078	13:20:31	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:21:37		*TEST PASSED*
Control .08 Test 4 EC	0.079	13:21:50	1032	*TEST PASSED*
Control .08 Test 4 IR	0.079	13:21:50	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:31:00		*TEST PASSED*
Control .16 Test 5 EC	0.157	13:31:35	1032	*TEST PASSED*
Control .16 Test 5 IR	0.160	13:31:35	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:32:48		*TEST PASSED*
Control .16 Test 6 EC	0.161	13:33:00	1032	*TEST PASSED*
Control .16 Test 6 IR	0.161	13:33:00	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:39:29		*TEST PASSED*
Control .30 Test 7 EC	0.305	13:40:08	1032	*TEST PASSED*
Control .30 Test 7 IR	0.307	13:40:08	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:41:31		*TEST PASSED*
Control .30 Test 8 EC	0.313	13:41:47	1032	*TEST PASSED*
Control .30 Test 8 IR	0.311	13:41:47	1032	*TEST PASSED*
Ambient Air Blank	0.000	13:42:22		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Widener - First Name: William MI: F Badge No.: 7817

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

T. Widener 7817

Signed:

Date: 04/08/2026

ID: 22

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1
Stratford Borough
SERIAL NUMBER: ARMH-0300

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0300
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9
 Cyl1 Install File No.: 34 Cyl1 Install Date: 04/08/2026 Cyl1 Install No.: 1

Control Tests (0.100%)

Installation Inlet: #1 (Upper) Post test active Cyl.: #1 (Upper)
 Dry Gas Lot No.: 302-403435213 Dry Gas Lot Exp.: 09/03/2028

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	13:55:42		*TEST PASSED*
Control Test 1			1032	*TEST PASSED*
EC Result	0.100	13:56:32		*TEST PASSED*
IR Result	0.101	13:56:32		*TEST PASSED*
Ambient Air Blank	0.000	13:57:44		*TEST PASSED*
Control Test 2			1031	*TEST PASSED*
EC Result	0.101	13:58:11		*TEST PASSED*
IR Result	0.102	13:58:11		*TEST PASSED*
Ambient Air Blank	0.000	13:59:25		*TEST PASSED*
Control Test 3			1031	*TEST PASSED*
EC Result	0.101	13:59:53		*TEST PASSED*
IR Result	0.102	13:59:53		*TEST PASSED*
Ambient Air Blank	0.000	14:00:27		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Widener - First Name: William MI: F Badge No.: 7817

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TR. Widener 7817

Signed:

Date: 04/08/2026

ID: 22

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2
Stratford Borough
SERIAL NUMBER: ARMH-0300

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0300
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9
 Cyl2 Install File No.: 35 Cyl2 Install Date: 04/08/2026 Cyl2 Install No.: 1

Control Tests (0.100%)

Installation Inlet: #2 (Lower) Post test active Cyl.: #1 (Upper)
 Dry Gas Lot No.: 302-403487657 Dry Gas Lot Exp.: 11/07/2028

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	14:10:09		*TEST PASSED*
Control Test 1			1031	*TEST PASSED*
EC Result	0.098	14:10:58		*TEST PASSED*
IR Result	0.100	14:10:58		*TEST PASSED*
Ambient Air Blank	0.000	14:12:10		*TEST PASSED*
Control Test 2			1031	*TEST PASSED*
EC Result	0.101	14:12:37		*TEST PASSED*
IR Result	0.100	14:12:37		*TEST PASSED*
Ambient Air Blank	0.000	14:13:53		*TEST PASSED*
Control Test 3			1031	*TEST PASSED*
EC Result	0.101	14:14:20		*TEST PASSED*
IR Result	0.101	14:14:20		*TEST PASSED*
Ambient Air Blank	0.000	14:14:56		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Widener - First Name: William MI: F Badge No.: 7817

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TR. W. F. WIDENER 7817

Signed:

Date: 04/08/2026

ID: 22

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401036
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1142740320
Date: September 22, 2025

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-403435213
ETHANOL IN NITROGEN

Manufactured Date: September 03, 2025
Product Expiration: September 03, 2028

COMPONENT	PPM	(BrAC)
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ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
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ETHANOL	263.2	(0.101)
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REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND49826	260.1

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:

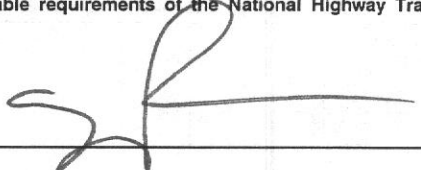
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401036
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1143982539
Date: November 10, 2025

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-403487657
ETHANOL IN NITROGEN

Manufactured Date: November 07, 2025
Product Expiration: November 07, 2028

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	261.7	(0.100)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND49826	260.1

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:

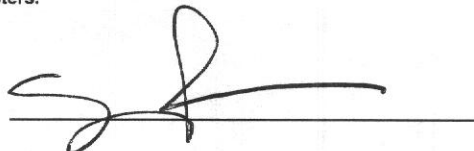
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251



Dräger

Alcotest 9510

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 9510 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 9510 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's specifications.

Certification Date:

Serial Number:

2026-03-11 ARMH-0300



DMSI, _____



State of New Jersey

OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
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(609) 882-2000

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

MATTHEW J. PLATKIN
Attorney General

COLONEL PATRICK J. CALLAHAN
Superintendent

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: 07/22/2024

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 24220

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1201 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 June 18, 2026.

As OFS Director 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
Director
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 29 day of July, 2024.

Notary

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



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CALIBRATED BY **masat** CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: 4303848314

Certificate/SO Number: 5-G0P3R-80-1 Revision 0



Manufacturer: Drager Safety AG & Co. KGaA

Model Number: X-Cal 2000

Description: Breath Alcohol Simulator

Serial Number: ARRL-0004

ID: NONE

As-Found: In Tolerance
As-Left: In Tolerance

Issue Date: Jan 16, 2026

Calibration Date: Jan 15, 2026

Due Date: Jan 15, 2027

Calibrated To: Manufacturer Specification

Calibration Procedure: 1-AC103519-2

This calibration conforms to ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994, ISO 9001:2015, and ISO 10012:2003. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540-3:2006 (R2013) are also covered. Standards are traceable to the SI either through the National Institute of Standards & Technology (NIST), the National Research Council of Canada (NRC), other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, natural physical constants, intrinsic standards, or ratio type measurements. The results of this report relate only to the item calibrated or tested. Reported data is valid at the time of calibration at the environmental conditions noted. This certificate shall not be reproduced except in full, without the written consent of Transcat, Inc. Uncertainties are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. When a decision rule is inherent in the specification or the standard the prescribed decision rule was used, otherwise where a statement of conformance is made, it was made based on the measurement meeting the limit, with no guardbanding applied. Per ILAC G8 Simple Decision rule TUR is $\leq 4:1$ unless otherwise noted in the data.

Calibrated At:
16115 Park Row
Houston, TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470

Calibrated By:

Electronically Signed By:
Jempson Andre

Reviewed By:

Electronically Signed By:
Christopher Bortz for

Jempson Andre
Calibration Technician
Jan 15, 2026
21:27:36 -05:00

Josh Solieau
Lab Manager
Jan 16, 2026
07:55:29 -05:00

Unit Barcode:

0900B666751

Date Received: January 14, 2026
Service Level: R9

CALIBRATED BY TRANSAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
 7256 S SAM HOUSTON PKWY W
 STE 100
 HOUSTON, TX 77085
 PO Number: 4303848314



Certificate/SO Number: 5-G0P3R-80-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process ○ Cal Process ○ Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Function Checks									
Bubble Check			P	P	P				
Seal Check			P	P	P				
Temperature Source: Accuracy Test									
Accuracy Test	34.00°C	±(0.02 °C)	33.98	34.02	34.00 °C	1.5e-002	1.6e-002	°C	1.3:1
Temperature Source: Stability Test									
Stability Test	0.00°C	±(0.02 °C)	-0.02	0.02	0.00 °C	1.5e-002	1.6e-002	°C	1.3:1

Field not applicable.

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
05H1425	Hart Scientific/Fluke	5615-12-P	Secondary Reference PRT	18-Apr-25	30-Apr-26	15-805H1425-4-1	AF/AL
5656	Fluke	1524	Handheld Thermometer	13-Jun-25	30-Jun-26	5-85656-21-1	AF/AL

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
69.55°F /20.86°C	27.00%	DewK11	G	Temperature

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

Certificate/SO Number: 5-F8B2G-140-1 Revision 0



Manufacturer: Wika Instr/Mensor Corp/Trend
Model Number: CPG2300

Description: Portable Barometer
Serial Number: 410013F5

ID: NONE

As-Found: Out Of Tolerance
As-Left: In Tolerance

Issue Date: Aug 26, 2025

Calibration Date: Aug 25, 2025

Due Date: Aug 25, 2026

Calibrated To: Manufacturer Specification

Calibration Procedure: 1-AC107288-0

Transcat Calibration Laboratories have been audited and found in compliance with ISO /IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual (QAC-201-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS 16949:2009, 10C-RR21, 10C-RR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturer's (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Notes:

Unit received out of tolerance. Adjustments were made to meet customer specs.

The OOT readings were verified.

Date Received: August 08, 2025
Service Level: R9

Certificate - Page 1 of 6
Reprinted on August 27, 2025

Customer Number: 1-659-111-000
OPS-F20-014R11 07/27/23 FP001R9 4/9/2021

CALIBRATED BY TRANSAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
 7256 S SAM HOUSTON PKWY W
 STE 100
 HOUSTON, TX 77085
 PO Number: SUC4303700862

Certificate/SO Number: 5-F8B2G-140-1 Revision 0



As Found Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found	Cal Process		Measurement Uncertainty	Units	TUR
						O	T			
Pressure Measure: 552 to 1172 mbara Range										
550.11mbara		±(0.015% FS)	549.93	550.29	549.90 mbara	*	1.0e-002	1.2e-002	mbara	17.2 : 1
610.05mbara		±(0.015% FS)	609.87	610.23	609.90 mbara	*	1.2e-002	1.3e-002	mbara	15.5 : 1
680.41mbara		±(0.015% FS)	680.23	680.59	680.20 mbara	*	1.3e-002	1.4e-002	mbara	13.9 : 1
734.31mbara		±(0.015% FS)	734.13	734.49	734.10 mbara	*	1.4e-002	1.5e-002	mbara	12.9 : 1
804.66mbara		±(0.015% FS)	804.48	804.84	804.40 mbara	*	1.5e-002	1.6e-002	mbara	11.8 : 1
864.93mbara		±(0.015% FS)	864.75	865.11	864.70 mbara	*	1.6e-002	1.7e-002	mbara	11.0 : 1
924.93mbara		±(0.015% FS)	924.75	925.11	924.70 mbara	*	1.8e-002	1.8e-002	mbara	10.2 : 1
985.24mbara		±(0.015% FS)	985.06	985.42	985.00 mbara	*	1.9e-002	2.0e-002	mbara	9.6 : 1
1043.9mbara		±(0.015% FS)	1043.7	1044.1	1043.7 mbara	*	2.0e-002	6.1e-002	mbara	10.1 : 1
1114.2mbara		±(0.015% FS)	1114.0	1114.4	1114.0 mbara	*	2.1e-002	6.1e-002	mbara	9.4 : 1
1174.6mbara		±(0.015% FS)	1174.4	1174.8	1174.4 mbara	*	2.2e-002	6.2e-002	mbara	9.0 : 1
924.93mbara		±(0.015% FS)	924.75	925.11	924.70 mbara	*	1.8e-002	1.8e-002	mbara	10.2 : 1
864.93mbara		±(0.015% FS)	864.75	865.11	864.70 mbara	*	1.6e-002	1.7e-002	mbara	11.0 : 1
804.65mbara		±(0.015% FS)	804.47	804.83	804.50 mbara	*	1.5e-002	1.6e-002	mbara	11.8 : 1

CALIBRATED BY TRANSCOT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
 7256 S SAM HOUSTON PKWY W
 STE 100
 HOUSTON, TX 77085
 PO Number: SUC4303700862



Certificate/SO Number: 5-F8B2G-140-1 Revision 0

As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Left	Cal Process O U T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Pressure Measure: 552 to 1172 mbara Range										
	550.08mbara	±(0.015% FS)	549.90	550.26	550.10 mbara		1.0e-002	1.2e-002	mbara	17.2 : 1
	610.02mbara	±(0.015% FS)	609.84	610.20	610.00 mbara		1.2e-002	1.3e-002	mbara	15.5 : 1
	680.38mbara	±(0.015% FS)	680.20	680.56	680.40 mbara		1.3e-002	1.4e-002	mbara	13.9 : 1
	734.28mbara	±(0.015% FS)	734.10	734.46	734.30 mbara		1.4e-002	1.5e-002	mbara	12.9 : 1
	804.65mbara	±(0.015% FS)	804.47	804.83	804.70 mbara		1.5e-002	1.6e-002	mbara	11.6 : 1
	864.92mbara	±(0.015% FS)	864.74	865.10	865.00 mbara		1.6e-002	1.7e-002	mbara	11.0 : 1
	924.92mbara	±(0.015% FS)	924.74	925.10	925.00 mbara		1.6e-002	1.8e-002	mbara	10.2 : 1
	985.22mbara	±(0.015% FS)	985.04	985.40	985.30 mbara		1.6e-002	2.0e-002	mbara	9.6 : 1
	1043.9mbara	±(0.015% FS)	1043.7	1044.1	1043.9 mbara		2.0e-002	6.1e-002	mbara	10.1 : 1
	1114.2mbara	±(0.015% FS)	1114.0	1114.4	1114.3 mbara		2.1e-002	6.1e-002	mbara	9.4 : 1
	1174.6mbara	±(0.015% FS)	1174.4	1174.8	1174.6 mbara		2.2e-002	6.2e-002	mbara	9.0 : 1
	924.92mbara	±(0.015% FS)	924.74	925.10	925.00 mbara		1.8e-002	1.8e-002	mbara	10.2 : 1
	864.92mbara	±(0.015% FS)	864.74	865.10	865.00 mbara		1.6e-002	1.7e-002	mbara	11.0 : 1
	804.64mbara	±(0.015% FS)	804.46	804.82	804.70 mbara		1.5e-002	1.6e-002	mbara	11.8 : 1

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DW11BA	Fuke/DH Instruments	PG7601	Piston Gauge	31-Jul-25	31-Jul-26	5-8DW11BA-20-1	AF/AL
DW11CA	Fuke/DH Instruments	MS-AMH-36	AMH Mass Set	5-Jun-25	30-Sep-25	5-8DW11CA-40-1	AF/AL
DW11LOW	Fuke/DH Instruments	PC-7100/7600-10-TC	Gas Piston-Cylinder Module	8-Apr-22	30-Apr-27	5-8DW11LOW-3-1	AF/AL
DW11MASS	Fuke/DH Instruments	MS-AMH-36	AMH Mass Set	5-Mar-25	31-Mar-26	5-8DW11MASS-12-1	AF/AL

The use of the standard is defined as: AF - used for as-found readings; AL - used for as-left readings.

CALIBRATED BY TRANSAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
 7256 S SAM HOUSTON PKWY W
 STE 100
 HOUSTON, TX 77085
 PO Number: SUC4303700862

Certificate/ISO Number: 5-F8B2G-140-1 Revision 0



Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
As Found: 72.32°F / 22.40°C	43.00%	DewK9	B	GP Pressure
As Left: 72.00°F / 22.22°C	43.00%	DewK9	B	GP Pressure

Decision Rule

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows: The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as In-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the "Determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

CALIBRATED BY TRASCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
 7256 S SAM HOUSTON PKWY W
 STE 100
 HOUSTON, TX 77085
 PO Number: SUCC4303700862

Certificate/ISO Number: 5-F8B2G-140-1 Revision 0



Legend

Topic	Description
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
As Found	Initial measurement results
As Left	Measurement results after adjustment and/or repair
Blank Data Field	Test is not applicable for the UUT
Cal Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
Calibration Date	Indicates the date that the calibration was completed
Cover Factor (K)	A measure of uncertainty that defines an interval about the measurement result
Due Date	Indicates the end of the calibration cycle as requested by the customer
Issue Date	Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Low / High Limits	Establishes UUT acceptable performance limits for the test measurement
Measurement Uncertainty	The dispersion of the values attributed to a measured quantity
OOA	Out of Acceptance (#)
OOT	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique Identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

Certificate/SO Number: 5-F8B2G-140-1 Revision 0



Calibrated At:
16115 Park Row
Houston, TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470



Date Received: August 08, 2025
Service Level: R9

Calibrated By:
 Electronically Signed By:
Alex Spiker

Reviewed By:
 Electronically Signed By:
Graham Walker for

Alex Spiker Calibration Technician	Aug 25, 2025 21:18:09 -04:00	Josh Soltau Lab Manager	Aug 26, 2025 05:36:56 -04:00
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CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401036
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1130434779
Date: May 23, 2024

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-403034216
ETHANOL IN NITROGEN

Manufactured Date: April 30, 2024
Product Expiration: April 30, 2027

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL.	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	264.1	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Traceable certificate numbers 3445312 and 3398673.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

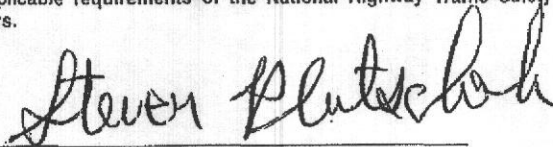
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

APPROVED BY:



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4507062
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1130434779
Date: May 22, 2024

METHOD OF ANALYSIS: IR-Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402999655

Manufactured Date: March 20, 2024

ETHANOL IN NITROGEN

Product Expiration: March 20, 2027

COMPONENT	PPM	(BrAC)
ETHANOL	104.2PPM	(0.040)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	107.9	(0.041)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND28529	103.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Traceable certificate numbers 3445312 and 3398673.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

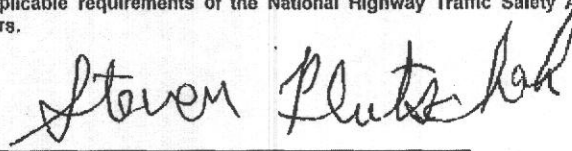
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

APPROVED BY:



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401032

DRAEGER MEDICAL SYSTEMS INC

Sales order: 1129327791

Date: April 10, 2024

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-403008479

ETHANOL IN NITROGEN

Product Expiration: March 28, 2027

COMPONENT	PPM	(BrAC)
ETHANOL	208.4PPM	(0.080)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	211.4	(0.081)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND28529	103.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Traceable certificate numbers 3445312 and 3398673.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: A679-20190918, D049803-20220329

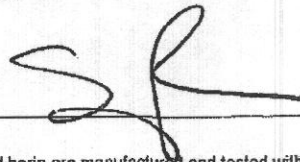
No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: March 28, 2024

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401040NJ
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1126209454
Date: December 19, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402926858
ETHANOL IN NITROGEN

Product Expiration: December 19, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	416.8PPM	(0.160)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	419.3	(0.161)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Traceable certificate numbers 3445312 and 3398673.

Analytical:

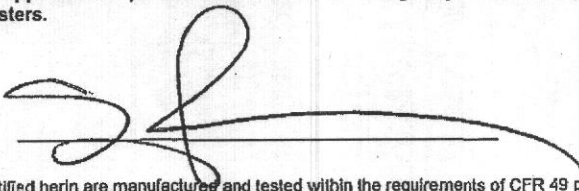
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: December 19, 2023

APPROVED BY: 

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1120654720

Date: May 30, 2023

DEPT OF LAW AND PUBLIC SAFETY

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402755077

ETHANOL IN NITROGEN

Product Expiration: May 26, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	781.5PPM	(0.300)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	794.4	(0.305)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Traceable certificate numbers 3445312 and 3398673.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: A679-20190918, D049803-20220329

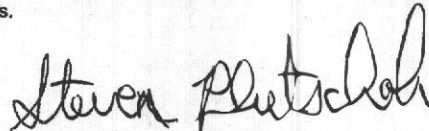
No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 26, 2023

APPROVED BY:



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251

DEPARTMENT OF
Traffic and Public Safety
This is to certify that

William F. Widener
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 **Alcotest 9510**

A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 11th DAY OF January

TWO THOUSAND AND Twenty Three

[Signature]
COLONEL
NEW JERSEY STATE POLICE

[Signature]
ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

	DATE	Refresher Course PLACE	INSTRUCTOR
1.	3-27-25	MCFA	<i>[Signature]</i>
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 2938 (Rev. 10/22)

DEPARTMENT OF
Traffic and Public Safety
This is to certify that

William F. Widener
Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 143 OF

THE LAWS OF 1966 IN THE OPERATION OF THE **Alcotest 9510**

A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 16th DAY OF May

TWO THOUSAND AND Twenty Three

[Signature]
COLONEL
NEW JERSEY STATE POLICE

[Signature]
ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

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

S.P. 2938 (Rev. 10/22)