

## ALCOTEST 9510 PARAMETER REPORT

### Equipment

Serial No.: ARMJ-0133  
Firmware: 8326739 1.5  
WinCE application: 8326738 2.9  
Configuration: 8326737 3.10

Date: 06/19/2025  
Time: 09:12:55

### 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)**  
**Stafford Township**

**Equipment**

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMJ-0133		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

**Wet Adjust Record**

Wet Adjust File No.:	149	Wet Adjust Date:	06/19/2025	Wet Adjust No.:	6
		Wet Adjust Time:	09:53:14		

Concentration:	0.100 %	Adj. Unit Ser. No.:	ARMN-0039	Adj. Unit Exp.:	10/04/2025
Adjusting Unit:	X-Cal 2000	Soln. Bottle No.:	1391	Adjust Soln. Exp.:	06/28/2025
Solution Lot No.:	23240				

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

**Result**

**Procedure completed successfully.**

**Coordinator**

Last Name: Bellay -	First Name: David	MI: M.	Badge No.: 8112
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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.

*David Bellay 8112*

Signed:	Date: 06/19/2025	ID: 50
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**ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)**  
**Stafford Township**

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133  
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

**Dry Adjust Record**

Dry Adjust File No.: 150 Dry Adjust Date: 06/19/2025 Dry Adjust No.: 6  
Dry Adjust Time: 10:10:27

Concentration: 0.100 %  
Dry Gas Lot No.: 302-402755160 Adjust Gas Exp.: 05/24/2026  
Barom. Model No.: Mensor CPG2300 Barom. Serial No.: 41001RDH Barom. Cert. Exp.: 09/26/2025  
Pre-adjust Amb. Pressure: 1010 hPa Post-adjust Amb. Pressure: 1010 hPa

**Result**

**Procedure completed successfully.**

**Coordinator**

Last Name: Bellay - First Name: David MI: M. Badge No.: 8112

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.



Signed:

Date: 06/19/2025

ID: 50

**ALCOTEST 9510 CERTIFICATION REPORT - LINEARITY (PART III)**  
**Stafford Township**

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133  
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

**Linearity Record**

Linearity File No.: 151 Lin. Date: 06/19/2025 Lin. No.: 4

0.040% Dry Gas Lot No.: 302-402755169 Adjust. Gas Exp.: 05/25/2026  
 0.080% Dry Gas Lot No.: 302-402732434 Adjust. Gas Exp.: 04/28/2026  
 0.160% Dry Gas Lot No.: 302-402922401 Adjust. Gas Exp.: 12/14/2026  
 0.300% Dry Gas Lot No.: 302-402757701 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	10:40:52		*TEST PASSED*
Control .04 Test 1 EC	0.039	10:41:27	1009	*TEST PASSED*
Control .04 Test 1 IR	0.039	10:41:27	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:42:13		*TEST PASSED*
Control .04 Test 2 EC	0.039	10:42:24	1009	*TEST PASSED*
Control .04 Test 2 IR	0.039	10:42:24	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:44:42		*TEST PASSED*
Control .08 Test 3 EC	0.078	10:45:17	1009	*TEST PASSED*
Control .08 Test 3 IR	0.079	10:45:17	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:46:08		*TEST PASSED*
Control .08 Test 4 EC	0.079	10:46:20	1009	*TEST PASSED*
Control .08 Test 4 IR	0.080	10:46:20	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:49:26		*TEST PASSED*
Control .16 Test 5 EC	0.154	10:50:03	1009	*TEST PASSED*
Control .16 Test 5 IR	0.158	10:50:03	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:50:59		*TEST PASSED*
Control .16 Test 6 EC	0.157	10:51:13	1009	*TEST PASSED*
Control .16 Test 6 IR	0.159	10:51:13	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:57:20		*TEST PASSED*
Control .30 Test 7 EC	0.298	10:57:56	1009	*TEST PASSED*
Control .30 Test 7 IR	0.303	10:57:56	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:58:57		*TEST PASSED*
Control .30 Test 8 EC	0.301	10:59:09	1009	*TEST PASSED*
Control .30 Test 8 IR	0.306	10:59:09	1009	*TEST PASSED*
Ambient Air Blank	0.000	10:59:21		*TEST PASSED*

**Result**

**All tests within acceptable tolerance.**

**Coordinator**

Last Name: Bellay - First Name: David MI: M. Badge No.: 8112

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.



Signed: \_\_\_\_\_ Date: 06/19/2025 ID: 50

**ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1**  
**Stafford Township**  
**SERIAL NUMBER: ARMJ-0133**

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133  
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9  
 Cyl1 Install File No.: 152 Cyl1 Install Date: 06/19/2025 Cyl1 Install No.: 2

**Control Tests (0.100%)**

Installation Inlet: #1 (Upper) Post test active Cyl.: #1 (Upper)  
 Dry Gas Lot No.: 302-402755079 Dry Gas Lot Exp.: 05/31/2026

**Data Summary**

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	11:11:40		*TEST PASSED*
Control Test 1			1009	*TEST PASSED*
EC Result	0.099	11:12:26		*TEST PASSED*
IR Result	0.100	11:12:26		*TEST PASSED*
Ambient Air Blank	0.000	11:13:19		*TEST PASSED*
Control Test 2			1009	*TEST PASSED*
EC Result	0.099	11:13:44		*TEST PASSED*
IR Result	0.101	11:13:44		*TEST PASSED*
Ambient Air Blank	0.000	11:14:37		*TEST PASSED*
Control Test 3			1009	*TEST PASSED*
EC Result	0.099	11:15:01		*TEST PASSED*
IR Result	0.101	11:15:01		*TEST PASSED*
Ambient Air Blank	0.000	11:15:13		*TEST PASSED*

**Result**

**All tests within acceptable tolerance.**

**Coordinator**

Last Name: Bellay - First Name: David MI: M. Badge No.: 8112

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.

*Tp DVB 8112*

Signed:

Date: 06/19/2025

ID: 50

**ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2**  
*Stafford Township*  
**SERIAL NUMBER: ARMJ-0133**

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133  
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9  
Cyl2 Install File No.: 153 Cyl2 Install Date: 06/19/2025 Cyl2 Install No.: 2

**Control Tests (0.100%)**

Installation Inlet: #2 (Lower) Post test active Cyl.: #1 (Upper)  
Dry Gas Lot No.: 302-403250951 Dry Gas Lot Exp.: 01/23/2028

**Data Summary**

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	11:23:27		*TEST PASSED*
Control Test 1			1009	*TEST PASSED*
EC Result	0.099	11:24:13		*TEST PASSED*
IR Result	0.100	11:24:13		*TEST PASSED*
Ambient Air Blank	0.000	11:25:06		*TEST PASSED*
Control Test 2			1009	*TEST PASSED*
EC Result	0.099	11:25:30		*TEST PASSED*
IR Result	0.101	11:25:30		*TEST PASSED*
Ambient Air Blank	0.000	11:26:22		*TEST PASSED*
Control Test 3			1009	*TEST PASSED*
EC Result	0.100	11:26:46		*TEST PASSED*
IR Result	0.101	11:26:46		*TEST PASSED*
Ambient Air Blank	0.000	11:26:58		*TEST PASSED*

**Result**

**All tests within acceptable tolerance.**

**Coordinator**

Last Name: Bellay - First Name: David MI: M. Badge No.: 8112

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.



Signed:

Date: 06/19/2025

ID: 50

# CERTIFICATE OF ANALYSIS

## EBS - ETHANOL BREATH STANDARD

**DRAEGER MEDICAL SYSTEMS INC.;**

Sales order: 1121656187  
Date: June 30, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402755079

ETHANOL IN NITROGEN

Product Expiration: May 31, 2026

COMPONENT	PPM	( BrAC )
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
<hr/>		
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	262.5	(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.

Manufactured Date: May 31, 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

Part Number: 4401036

**DRAEGER MEDICAL SYSTEMS INC**

Sales order: 1137212700

Date: February 19, 2025

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-403250951

Manufactured Date: January 23, 2025

ETHANOL IN NITROGEN

Product Expiration: January 23, 2028

COMPONENT	PPM	( BrAC )
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	263.1	(0.101)

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.

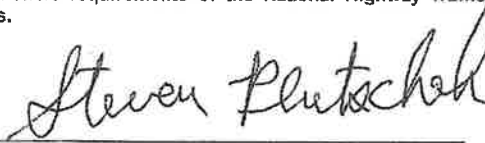
Certification Numbers: A679-20190918, D049803-20220329

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:

5/23/2025

Serial Number:

ARMJ-0133

Dräger, Inc.

QR / DH



State of New Jersey

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

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: 09/13/2023

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 23240

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1196 to 0.1212 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 28, 2025.

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.

Handwritten signature of Michael Kennedy

Michael Kennedy
OFS Director
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 15 day of September, 2023.

Handwritten signature of Notary

Notary

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



"An Internationally Accredited Agency"

New Jersey Is An Equal Opportunity Employer
Printed on Recycled Paper and Recyclable



**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085

**PO Number:** S1O4303440829

**Certificate/SO Number: 5-F2R00-120-1 Revision 0**

**Manufacturer:** Drager Safety AG & Co. KGaA  
**Model Number:** X-Cal 2000  
**Description:** Breath Alcohol Simulator  
**Serial Number:** ARMN-0039  
**ID:** NONE

**As-Found:** In Tolerance  
**As-Left:** In Tolerance  
**Issue Date:** Oct 04, 2024  
**Calibration Date:** Oct 04, 2024  
**Due Date:** Oct 04, 2025

**Calibrated To:** Customer Spec  
**Calibration Procedure:** 1-AC103519-1

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 present 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 cover an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-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 (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 methods. 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.

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) 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/cm<sup>3</sup>.

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 date of 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 manufacturers (OEM's) warranted specification or other 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 report is to be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

**Date Received:** October 01, 2024  
**Service Level :** R9

**Certificate - Page 1 of 5**  
Reprinted on October 18, 2024

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

PO Number: S1O4303440829

Certificate/SO Number: 5-F2R00-120-1 Revision 0

**As Found/As Left Data**

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O O T	Cal Proces Uncertain (k=2; ±)
<b>Function Checks</b>							
Bubble Check			P	P	P		
Seal Check			P	P	P		
<b>Temperature Source: Accuracy Test</b>							
Accuracy Test	34.00°C	±( 0.02 °C)	33.98	34.02	34.00 °C		1.5e-002
<b>Temperature Source: Stability Test</b>							
Stability Test	0.00°C	±( 0.02 °C)	-0.02	0.02	0.00 °C		5.0e-003

**Traceable Standards**

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date
05H1431	AccuMac Corporation	AM1760	Secondary SPRT	12-Feb-24	28-Feb-25
HP927312	Hart Scientific/Fluke	1575	Super Thermometer	10-Jul-24	31-Jan-26

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
70.60°F /21.44°C	53.90%	DewK5	G

**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 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 meas

Date Received: October 01, 2024  
Service Level : R9

Certificate - Page 2 of 5

Reprinted on October 18, 2024

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085

**PO Number:** S1O4303440829

**Certificate/SO Number: 5-F2R00-120-1 Revision 0**

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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 same zone, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone is 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 R" document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. State

**Date Received:** October 01, 2024  
**Service Level :** R9

**Certificate - Page 3 of 5**

Reprinted on October 18, 2024

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085

**PO Number:** S104303440829

**Certificate/SO Number: 5-F2R00-120-1 Revision 0**

**Legend**

<b>Topic</b>	<b>Description</b>
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold the
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 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

**Date Received:** October 01, 2024  
**Service Level :** R9

**Certificate - Page 4 of 5**

Reprinted on October 18, 2024

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085


**PO Number:** S1O4303440829

**Certificate/SO Number: 5-F2R00-120-1 Revision 0**

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**Calibrated At:**  
16115 Park Row  
Houston, TX 77084

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

**Calibrated By:**  
 **Electronically Signed By:**  
Jose Martinez

---

Jose Martinez                      Oct 04, 2024  
Calibration Technician              02:35:04 -04:C

**Unit Barcode:**   
0900B567243

**Date Received:** October 01, 2024  
**Service Level :** R9

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
**PO Number:** S104303405716

**Certificate/SO Number: 5-F2D8A-40-1 Revision 0**

**Manufacturer:** Wika Instr/Mensor Corp/Trend  
**Model Number:** CPG2300  
**Description:** Portable Barometer  
**Serial Number:** 41001RDH  
**ID:** NONE

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

**Issue Date:** Sep 27, 2024  
**Calibration Date:** Sep 26, 2024  
**Due Date:** Sep 26, 2025

**Calibrated To:** Manufacturer Specifications  
**Calibration Procedure:** 1-AC94879-0

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 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 certify or endorse an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ASTM E 2540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 are 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 metrology organizations (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 methods. 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.

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/cm<sup>3</sup>.

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 details of the specification are specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or other applicable 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 be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

**Date Received:** September 03, 2024  
**Service Level:** R9

**Certificate - Page 1 of 5**  
Reprinted on October 17, 2024

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

PO Number: S104303405716

Certificate/SO Number: 5-F2D8A-40-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O O T	Cal Proces Uncertain (k=2; ±)
<b>Pressure Measure: 8 to 17 psia Range</b>							
	7.985psia	±(0.015% FS)	7.982	7.988	7.985 psia		1.5e-004
	8.857psia	±(0.015% FS)	8.854	8.860	8.856 psia		1.7e-004
	9.731psia	±(0.015% FS)	9.728	9.734	9.731 psia		1.8e-004
	10.628psia	±(0.015% FS)	10.625	10.631	10.627 psia		2.0e-004
	11.647psia	±(0.015% FS)	11.644	11.650	11.647 psia		2.2e-004
	12.523psia	±(0.015% FS)	12.520	12.526	12.523 psia		2.4e-004
	13.396psia	±(0.015% FS)	13.393	13.399	13.395 psia		2.5e-004
	14.269psia	±(0.015% FS)	14.266	14.272	14.269 psia		2.7e-004
	15.270psia	±(0.015% FS)	15.267	15.273	15.269 psia		2.9e-004
	16.145psia	±(0.015% FS)	16.142	16.148	16.145 psia		3.1e-004
	17.020psia	±(0.015% FS)	17.017	17.023	17.019 psia		3.2e-004
	13.396psia	±(0.015% FS)	13.393	13.399	13.395 psia		2.5e-004
	12.523psia	±(0.015% FS)	12.520	12.526	12.523 psia		2.4e-004
	11.647psia	±(0.015% FS)	11.644	11.650	11.647 psia		2.2e-004

Date Received: September 03, 2024  
Service Level : R9

Certificate - Page 2 of 5

Reprinted on October 17, 2024

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085

**PO Number:** S104303405716

**Certificate/SO Number: 5-F2D8A-40-1 Revision 0**

**Traceable Standards**

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date
DW09BA	Fluke/DH Instruments	PG7601	Piston Gauge	11-Sep-23	30-Sep-24
DW09CA	DH Instruments	MS-AMH-38	AMH Mass Set	13-Sep-24	13-Dec-24
DW09LOW	Fluke/DH Instruments	PC-7100/7600-10-TC	Gas Piston-Cylinder Module	22-Aug-23	31-Aug-28
DW09MASS	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	1-Feb-24	30-Nov-24

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
71.20°F /21.78°C	42.50%	DewK8	B

**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 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 measurements 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 tolerance zone, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone is 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 R document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. State

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085

**PO Number:** S1O4303405716

**Certificate/SO Number: 5-F2D8A-40-1 Revision 0**

**Legend**

<b>Topic</b>	<b>Description</b>
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold the
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 revi 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

**Date Received:** September 03, 2024  
**Service Level :** R9

**Certificate - Page 4 of 5**

Reprinted on October 17, 2024

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

PO Number: S104303405716

Certificate/SO Number: 5-F2D8A-40-1 Revision 0

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Calibrated At:  
16115 Park Row  
Houston, TX 77084

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

Calibrated By:  
 Electronically Signed By:  
Alex Spilker

Unit Barcode:   
0900B581608

Date Received: September 03, 2024  
Service Level: R9

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Alex Spilker Sep 26, 2024  
Calibration Technician 21:33:01 -04:00

# CERTIFICATE OF ANALYSIS

## EBS - ETHANOL BREATH STANDARD

DEPT OF LAW AND PUBLIC SAETY

Sales order: 1120654933

Date: May 30, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402755160

ETHANOL IN NITROGEN

Product Expiration: May 24, 2026

COMPONENT	PPM	( BrAC )
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ETHANOL	260.5PPM	(0.100)
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NITROGEN	BAL	
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AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
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ETHANOL	261.6	(0.100)
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REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
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N.M.I. TRACEABLE STANDARDS*	ND38424	260.7
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\* 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

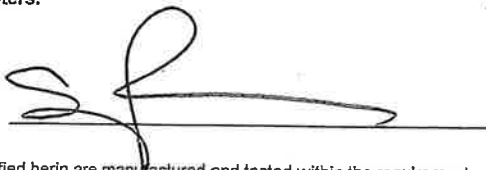
No effecting environmental conditions during analysis.

\*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 24, 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

**DRAEGER MEDICAL SYSTEMS INC.;**

Sales order: 1121156486  
Date: June 12, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer  
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.  
CALGAZ LOT#: 302-402755169  
ETHANOL IN NITROGEN

Product Expiration: May 25, 2026

COMPONENT	PPM	( BrAC )
ETHANOL	104.2PPM	(0.040)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	107.2	(0.041)

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 25, 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: 1120656618

Date: May 25, 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#: 302-402732434

ETHANOL IN NITROGEN

Product Expiration: April 28, 2026

COMPONENT	PPM	( BrAC )
ETHANOL	208.4PPM	(0.080)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	210.4	(0.081)

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

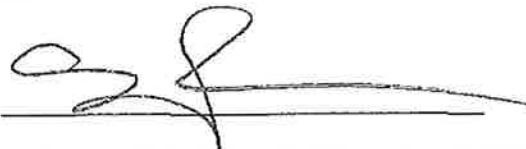
No effecting environmental conditions during analysis.

\*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: April 28, 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

Part Number: 4401040NJ  
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1126209454  
Date: December 18, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer  
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.  
CALGAZ LOT#: 302-402922401  
ETHANOL IN NITROGEN

Product Expiration: December 14, 2026

COMPONENT	PPM	( BrAC )
ETHANOL	416.8PPM	(0.160)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	418.6	(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 14, 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: 120656632

Date: May 31, 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#: 302-402757701

ETHANOL IN NITROGEN

Product Expiration: May 26, 2026

COMPONENT	PPM	( BrAC )
ETHANOL	781.5PPM	(0.300)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	794.1	(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

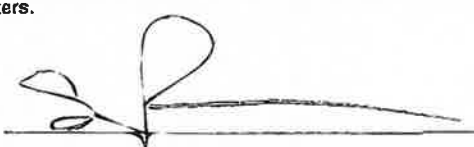
No effecting environmental conditions during analysis.

\*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  
*Water and Public Safety*  
 This is to certify that

**David M. Bellay**

**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 9510

A METHOD TO DETERMINE INTOXICATION. GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 28th DAY OF April

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. 293B (Rev. 10/22)

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

**David M. Bellay**

**Breath Test Coordinator/Instructor**

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 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 20th DAY OF August

TWO THOUSAND AND Twenty Four

*[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. 293B (Rev. 10/22)



# 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:

5/23/2025

Serial Number:

ARMJ-0133

Dräger, Inc.

QR 104