

ALCOTEST 9510 PARAMETER REPORT

Equipment

Serial No.: ARMH-0287
Firmware: 8326739 1.5
WinCE application: 8326738 2.9
Configuration: 8326737 3.10

Date: 04/29/2025
Time: 07:10:22

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)
Brielle Borough

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0287
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Wet Adjust Record

Wet Adjust File No.: 163 Wet Adjust Date: 04/29/2025 Wet Adjust No.: 7
Wet Adjust Time: 07:51:44

Concentration: 0.100 %
Adjusting Unit: X-Cal 2000 Adj. Unit Ser. No.: ARRD-0003 Adj. Unit Exp.: 10/03/2025
Solution Lot No.: 23240 Soln. Bottle No.: 327 Adjust Soln. Exp.: 06/28/2025

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

Result

Procedure completed successfully.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

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: 04/29/2025

ID: 52

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

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0287
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Dry Adjust Record

Dry Adjust File No.: 164 Dry Adjust Date: 04/29/2025 Dry Adjust No.: 7
Dry Adjust Time: 08:10:02

Concentration: 0.100 %
Dry Gas Lot No.: 302-402448282 Adjust Gas Exp.: 05/20/2025
Barom. Model No.: Mensor CPG2300 Barom. Serial No.: 41001RDG Barom. Cert. Exp.: 09/26/2025
Pre-adjust Amb. Pressure: 1024 hPa Post-adjust Amb. Pressure: 1024 hPa

Result

Procedure completed successfully.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

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.

TPP [Signature] # 8256

Signed:

Date: 04/29/2025

ID: 52

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

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0287
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Linearity Record

Linearity File No.: 165 Lin. Date: 04/29/2025 Lin. No.: 7

0.040% Dry Gas Lot No.: 302-402488140 Adjust. Gas Exp.: 07/15/2025
 0.080% Dry Gas Lot No.: 302-402477282 Adjust. Gas Exp.: 06/24/2025
 0.160% Dry Gas Lot No.: 302-402486005 Adjust. Gas Exp.: 07/13/2025
 0.300% Dry Gas Lot No.: 302-402488144 Adjust. Gas Exp.: 07/15/2025

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	08:43:09		*TEST PASSED*
Control .04 Test 1 EC	0.039	08:43:47	1024	*TEST PASSED*
Control .04 Test 1 IR	0.039	08:43:47	1024	*TEST PASSED*
Ambient Air Blank	0.000	08:44:57		*TEST PASSED*
Control .04 Test 2 EC	0.040	08:45:12	1024	*TEST PASSED*
Control .04 Test 2 IR	0.039	08:45:12	1024	*TEST PASSED*
Ambient Air Blank	0.000	08:46:39		*TEST PASSED*
Control .08 Test 3 EC	0.077	08:47:15	1024	*TEST PASSED*
Control .08 Test 3 IR	0.079	08:47:15	1024	*TEST PASSED*
Ambient Air Blank	0.000	08:48:28		*TEST PASSED*
Control .08 Test 4 EC	0.081	08:48:42	1024	*TEST PASSED*
Control .08 Test 4 IR	0.080	08:48:42	1024	*TEST PASSED*
Ambient Air Blank	0.000	08:50:20		*TEST PASSED*
Control .16 Test 5 EC	0.156	08:50:54	1024	*TEST PASSED*
Control .16 Test 5 IR	0.158	08:50:54	1024	*TEST PASSED*
Ambient Air Blank	0.000	08:52:14		*TEST PASSED*
Control .16 Test 6 EC	0.160	08:52:27	1024	*TEST PASSED*
Control .16 Test 6 IR	0.159	08:52:27	1024	*TEST PASSED*
Ambient Air Blank	0.000	08:58:51		*TEST PASSED*
Control .30 Test 7 EC	0.293	08:59:26	1024	*TEST PASSED*
Control .30 Test 7 IR	0.296	08:59:26	1024	*TEST PASSED*
Ambient Air Blank	0.000	09:00:57		*TEST PASSED*
Control .30 Test 8 EC	0.299	09:01:09	1024	*TEST PASSED*
Control .30 Test 8 IR	0.299	09:01:09	1024	*TEST PASSED*
Ambient Air Blank	0.000	09:01:46		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

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.

Robert Waldrop #8256

Signed:

Date: 04/29/2025

ID: 52

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1
Brielle Borough
SERIAL NUMBER: ARMH-0287

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0287
 Firmware: 8326739.1.5 Config: 8326737.3.10 WinCE: 8326738.2.9
 Cyl1 Install File No.: 144 Cyl1 Install Date: 11/26/2024 Cyl1 Install No.: 2

Control Tests (0.100%)

Installation Inlet: #1 (Upper) Post-test active Cyl: #2 (Lower)
 Dry Gas Lot No.: 302-402862067 Dry Gas Lot Exp.: 09/29/2026

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. (hPa)	Comment(s) or Status Code
Ambient Air Blank	0.000	09:24:45		*TEST PASSED*
Control Test 1			1009	*TEST PASSED*
EC Result	0.101	09:25:31		*TEST PASSED*
IR Result	0.102	09:25:31		*TEST PASSED*
Ambient Air Blank	0.000	09:26:45		*TEST PASSED*
Control Test 2			1009	*TEST PASSED*
EC Result	0.102	09:27:10		*TEST PASSED*
IR Result	0.102	09:27:10		*TEST PASSED*
Ambient Air Blank	0.000	09:28:27		*TEST PASSED*
Control Test 3			1009	*TEST PASSED*
EC Result	0.102	09:28:52		*TEST PASSED*
IR Result	0.102	09:28:52		*TEST PASSED*
Ambient Air Blank	0.000	09:29:26		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Waldrop First Name: Robert Mr. W Badge No.: 8256

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 Waldrop 8256

Signed:

Date: 11/26/2024

ID: 52

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2

Brigitte Borning

SERIAL NUMBER: ARMH0287

Equipment

Inst. Model No. ALCOTEST 9510 Serial No. ARMH 0287
Firmware: 8326739.1.5 Config: 8326737.3.10 Wince: 8326738.2.9
Cyl 2 Install File No. 145 Cyl 2 Install Date: 1/26/2024 Cyl 2 Install No. 2

Control Tests (0-100%)

Installation Inlet: #2 (Lower) Post-test active Cyl: #1 (Upper)
Dry Gas Lot No.: 302-492906807 Dry Gas Lot Exp. Date: 11/27/2026

Data Summary

Function	Result	Time	Parametric	Comment(s)
	%BAC	hh:mm:ss	Pres. (hPa)	or Status Code
Ambient Air Blank	0.000	09:46:24		TEST PASSED
Control Test 1			1009	TEST PASSED
EC Result	0.100	09:47:10		TEST PASSED
IR Result	0.101	09:47:10		TEST PASSED
Ambient Air Blank	0.000	09:48:27		TEST PASSED
Control Test 2			1009	TEST PASSED
EC Result	0.100	09:48:51		TEST PASSED
IR Result	0.101	09:48:51		TEST PASSED
Ambient Air Blank	0.000	09:50:08		TEST PASSED
Control Test 3			1009	TEST PASSED
EC Result	0.100	09:50:33		TEST PASSED
IR Result	0.101	09:50:33		TEST PASSED
Ambient Air Blank	0.000	09:51:07		TEST PASSED

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Waldrop First Name: Robert MI: WA Badge No.: 8256

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.

Handwritten signature: M. D. ... 8256

Signed:

Date: 1/26/2024

ID: 52

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401036
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1126197351
 Date: December 12, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
 ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
 CALGAZ LOT#: 302-402862067
 ETHANOL IN NITROGEN

Product Expiration: September 29, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE		
ETHANOL	265.5	(0.102)

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

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

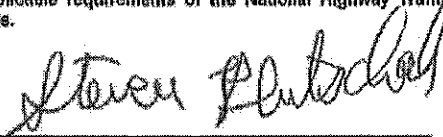
Preparation:
 Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
 Traceable certificate numbers 3446312 and 3398873.

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: September 29, 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 170.65 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: 1126218824
Date: December 18, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402906807
ETHANOL IN NITROGEN

Product Expiration: November 27, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN .	BAL.	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	261.3	(0.100)

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: November 27, 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



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:

6/14/2022

ARMH-0287

Draeger, Inc. _____

GR

MB



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

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.

Michael Kennedy
Michael Kennedy
OFS Director
NJSP Office of Forensic Sciences

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

Notary

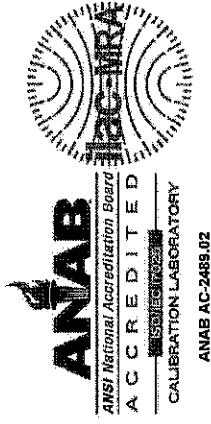
KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 60110522
My Commission Expires 8/13/2024



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Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303440829

Certificate/SO Number: 5-F2R00-220-1 Revision 0

Manufacturer: Drager Safety AG & Co. KGaA
Model Number: X-Cal 2000
Description: Breath Alcohol Simulator
Serial Number: ARRD-0003
ID: NONE

As-Found: In Tolerance
As-Left: In Tolerance
Issue Date: Oct 03, 2024
Calibration Date: Oct 03, 2024
Due Date: Oct 03, 2025

Calibrated To: Customer Specification
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 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-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/INCSL 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/INCSL 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 (NIM) 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 manufacturers (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).



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303440829

Certificate/SO Number: 5-F2R00-220-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process		Units	TUR
						O	T		
Function Checks									
Bubble Check			P	P	P				
Seal Check			P	P	P				
Temperature Source: Accuracy Test	34.00°C	±(0.02 °C)	33.98	34.02	34.01 °C		1.5e-002	1.6e-002	1.3 : 1
Temperature Source: Stability Test	0.00°C	±(0.02 °C)	-0.02	0.02	0.00 °C		5.0e-003	7.6e-003	4.0 : 1

Field not applicable.

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
05H1409	Mensor Corp	CPT9000	Precision Pressure Transducer	10-Jun-24	31-Dec-24	5-805H1409-3-1	AF/AL
HP927312	Hart Scientific/Fluke	1575	Super Thermometer	10-Jul-24	31-Jan-26	5-8 HP927312-9-1	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
70.00°F / 21.11°C	54.00%	DewK8	G	Temperature

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



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303440829

Certificate/ISO Number: 5-F2R00-220-1 Revision 0

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.



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303440829

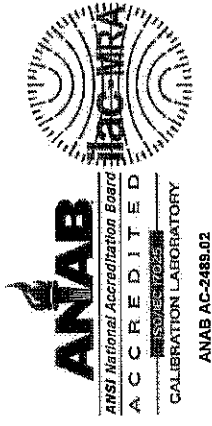
Certificate/SO Number: 5-F2R00-220-1 Revision 0

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(\$)
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



CERTIFICATE OF CALIBRATION



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303440829

Certificate/SO Number: 5-F2R00-220-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

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



Date Received: October 01, 2024
Service Level: R9

Calibrated By:
 Jose Martinez
Calibration Technician

Reviewed By:
 Daniel Beights for

Oct 03, 2024 18:27:48 -04:00
Oct 03, 2024 19:24:44 -04:00

Josh Soileau
Lab Manager

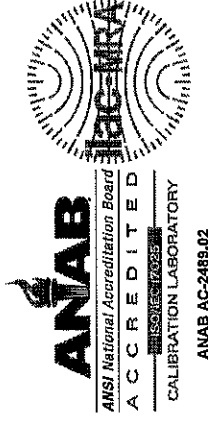
Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: S104303405716



Certificate/ISO Number: 5-F2D8A-80-1 Revision 0

Manufacturer: Wilka Instr/Mensor Corp/Trend

Model Number: CPG2300

Description: Portable Barometer

Serial Number: 41001RDG

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 Specification

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 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.

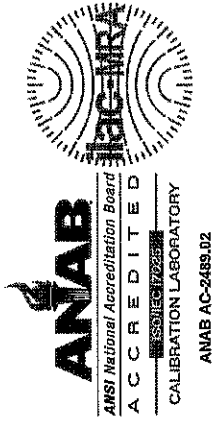
Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/INCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/INCSL 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 manufacturers (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).



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

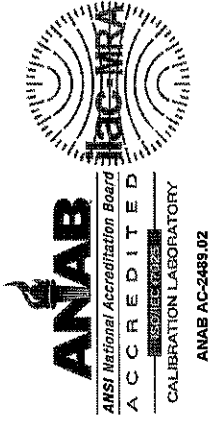
Certificate/ISO Number: 5-F2D8A-80-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	As Found/As Left Data			Cal Process Uncertainty (k=2; s)	Measurement Uncertainty (k=2; s)	Units	TUR
			Low Limit	High Limit	As Found / As Left				
Pressure Measure: 8 to 17 psia Range									
	7.985psia	±(0.015% FS)	7.982	7.988	7.983 psia	1.5e-004	6.0e-004	psia	19.8 : 1
	8.857psia	±(0.015% FS)	8.854	8.860	8.855 psia	1.7e-004	6.0e-004	psia	17.8 : 1
	9.731psia	±(0.015% FS)	9.728	9.734	9.730 psia	1.8e-004	6.0e-004	psia	16.2 : 1
	10.628psia	±(0.015% FS)	10.625	10.631	10.625 psia	2.0e-004	6.2e-004	psia	14.9 : 1
	11.647psia	±(0.015% FS)	11.644	11.650	11.645 psia	2.2e-004	6.2e-004	psia	13.6 : 1
	12.523psia	±(0.015% FS)	12.520	12.526	12.522 psia	2.4e-004	6.3e-004	psia	12.5 : 1
	13.396psia	±(0.015% FS)	13.393	13.399	13.394 psia	2.5e-004	6.3e-004	psia	11.8 : 1
	14.269psia	±(0.015% FS)	14.266	14.272	14.268 psia	2.7e-004	6.4e-004	psia	11.1 : 1
	15.270psia	±(0.015% FS)	15.267	15.273	15.268 psia	2.9e-004	6.4e-004	psia	10.3 : 1
	16.145psia	±(0.015% FS)	16.142	16.148	16.144 psia	3.1e-004	6.5e-004	psia	9.8 : 1
	17.020psia	±(0.015% FS)	17.017	17.023	17.018 psia	3.2e-004	6.6e-004	psia	9.3 : 1
	13.396psia	±(0.015% FS)	13.393	13.399	13.394 psia	2.5e-004	6.3e-004	psia	11.8 : 1
	12.523psia	±(0.015% FS)	12.520	12.526	12.522 psia	2.4e-004	6.3e-004	psia	12.6 : 1
	11.647psia	±(0.015% FS)	11.644	11.650	11.645 psia	2.2e-004	6.2e-004	psia	13.6 : 1

Field not applicable.

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



Certificate/SO Number: 5-F2D8A-80-1 Revision 0

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DW09BA	Fluke/DH Instruments	PG7601	Piston Gauge	11-Sep-23	30-Sep-24	5-&DW09BA-16-1	AF/AL
DW09CA	DH Instruments	MS-AMH-38	AMH Mass Set	13-Sep-24	13-Dec-24	5-&DW09CA-16-1	AF/AL
DW09LOW	Fluke/DH Instruments	PC-71007600-10-TC	Gas Piston-Cylinder Module	22-Aug-23	31-Aug-28	5-&DW09LOW-5-1	AF/AL
DW09MASS	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	1-Feb-24	30-Nov-24	5-&DW09MASS-9-1	AF/AL

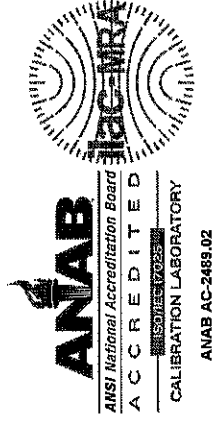
The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
71.20°F /21.78°C	42.50%	DewK8	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.



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

Certificate/SO Number: 5-F2D8A-80-1 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 **TRANSAT**

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77084
PO Number: S1O4303405716



Certificate/SO Number: 5-F2D8A-80-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

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



Unit Barcode: 0900561617

Date Received: September 03, 2024
Service Level: RS

Calibrated By:

Electronically Signed By:
Alex Spilker

Sep 26, 2024
Calibration Technician
21:46:28 -04:00

Reviewed By:

Electronically Signed By:
Christopher Naylor for

Sep 27, 2024
Lab Manager
14:28:05 -04:00

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111663404
Date: July 05, 2022

NJSP 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#: 302-402448282
ETHANOL IN NITROGEN

Product Expiration: May 20, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
<hr/>		
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	263.3	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

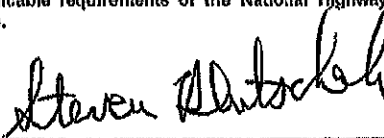
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Calibration test 283190, 283189, 283188, or 283192 dated 6th January 2022 applies

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218
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 20, 2022

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: 1111918174

Date: July 27, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402488140
ETHANOL IN NITROGEN

Product Expiration: July 15, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	104.2PPM	(0.040)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	107.1	(0.041)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* 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.

Calibration test 283192, dated 6th January 2022 or calibration test 292029, 292030 or 292031, dated 28th March 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

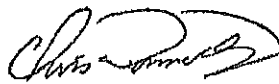
No effecting environmental conditions during analysis.

*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: July 15, 2022

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: 1111713599

Date: July 05, 2022

NJSP 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#: 302-402477282

ETHANOL IN NITROGEN

Product Expiration: June 24, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	208.4PPM	(0.080)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	212.2	(0.081)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* 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.

Calibration test 283190, 283189, 283188, or 283192 dated 8th January 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

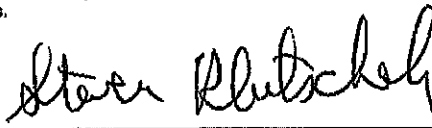
No effecting environmental conditions during analysis.

*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: June 24, 2022

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: 1111788955
Date: July 14, 2022

NJSP

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402486005
ETHANOL IN NITROGEN

Product Expiration: July 13, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	416.8PPM	(0.160)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	420.0	(0.161)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* 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.

Calibration test 283192, dated 6th January 2022 or calibration test 292029, 292030 or 292031, dated 26th March 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

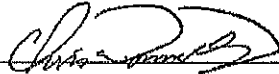
No effecting environmental conditions during analysis.

*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: July 13, 2022

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 178.85 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: 1111709457

Date: July 19, 2022

NJSP

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402488144

ETHANOL IN NITROGEN

Product Expiration: July 15, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	781.5PPM	(0.300)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	785.3	(0.301)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* 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.

Calibration test 283192, dated 6th January 2022 or calibration test 292029, 292030 or 292031, dated 26th March 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

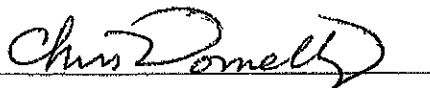
No effecting environmental conditions during analysis.

*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: July 15, 2022

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 178.85 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
What is to be certified that

Robert W. Waldrop

Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL ANALYSIS AND TESTS PERMITTED TO CONDUCT BY HIM

THE LAWS OF THIS STATE IN THE OPERATION OF THIS **Alcohol 9510**

A MEETING TO DETERMINE REFRESHING COURSE

CONDUCTED BY HIM AT THE CITY OF NEW JERSEY THE **25th** DAY OF **March**

TWO THOUSAND AND **Twenty Five**

[Signature]
COLONEL
NEW JERSEY STATE POLICE

[Signature]
ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

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

S.P. 2838 (Rev. 10/22)

DEPARTMENT OF
Traffic and Public Safety
What is to be certified that

Robert W. Waldrop

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL ANALYSIS AND TESTS PERMITTED TO CONDUCT BY HIM

THE LAWS OF THIS STATE IN THE OPERATION OF THIS **Alcohol 9510**

A MEETING TO DETERMINE REFRESHING COURSE

CONDUCTED BY HIM AT THE CITY OF NEW JERSEY THE **23rd** 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	Refreshment Course PLACE	INSTRUCTOR
1. 3-27-25	MOCA	AD
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

S.P. 2838 (Rev. 10/22)