ALCOTEST CERTIFICATIONS INDEX # 06

01-02-2025

ALCOTEST 9510

SERIAL # ARMJ-0142

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ITEM # 18 NJSP CERTIFICATION OFFICER CREDENTIALS (1 pgs)

ALCOTEST 9510 PARAMETER REPORT

Equipment

Serial No.:	ARMJ-0142
Firmware:	8326739 1.5
WinCE application:	8326738 2.9
Configuration:	8326737 3.10
Date:	01/02/2025
Time:	09:51:45

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 sensitivy	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)
Toms River Twp

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMJ-0142		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

Wet Adjust Record

Wet Adjust File No.:	397	Wet Adjust Date:	01/02/2025	Wet Adjust No.:	5
		Wet Adjust Time:	10:49:53		
Concentration:	0.100 %				
Adjusting Unit:	X-Cal 2000	Adj. Unit Ser. No.:	ARND-0009	Adj. Unit Exp.:	02/16/2025
Solution Lot No.:	23240	Soln. Bottle No.:	842	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: 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: 01/02/2025 ID: 50

ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)
Toms River Twp

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMJ-0142		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

Dry Adjust Record

Dry Adjust File No.:	398	Dry Adjust Date:	01/02/2025	Dry Adjust No.:	4
		Dry Adjust Time:	11:15:17		
Concentration:	0.100 %				
Dry Gas Lot No.:	302-402448282	Adjust Gas Exp.:	05/20/2025		
Barom. Model No.:	Mensor CPG2300	Barom. Serial No.:	4100126V	Barom. Cert. Exp.:	01/10/2025
Pre-adjust Amb. Pressure:		1013 hPa	Post-adjust Amb. Pressure:		1013 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: 01/02/2025 ID: 50

ALCOTEST 9510 CERTIFICATION REPORT - LINEARITY (PART III)
Toms River Twp

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMJ-0142		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

Linearity Record

Linearity File No.:	399	Lin. Date:	01/02/2025	Lin. No.:	4

0.040% Dry Gas Lot No.:	302-402755169	Adjust. Gas Exp.:	05/25/2026
0.080% Dry Gas Lot No.:	302-402477284	Adjust. Gas Exp.:	06/27/2025
0.160% Dry Gas Lot No.:	302-402486005	Adjust. Gas Exp.:	07/13/2025
0.300% Dry Gas Lot No.:	302-402759888	Adjust. Gas 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	11:35:45		*TEST PASSED*
Control .04 Test 1 EC	0.039	11:36:20	1012	*TEST PASSED*
Control .04 Test 1 IR	0.039	11:36:20	1012	*TEST PASSED*
Ambient Air Blank	0.000	11:37:27		*TEST PASSED*
Control .04 Test 2 EC	0.039	11:37:38	1013	*TEST PASSED*
Control .04 Test 2 IR	0.040	11:37:38	1013	*TEST PASSED*
Ambient Air Blank	0.000	11:39:08		*TEST PASSED*
Control .08 Test 3 EC	0.078	11:39:41	1013	*TEST PASSED*
Control .08 Test 3 IR	0.079	11:39:41	1013	*TEST PASSED*
Ambient Air Blank	0.000	11:40:52		*TEST PASSED*
Control .08 Test 4 EC	0.080	11:41:04	1013	*TEST PASSED*
Control .08 Test 4 IR	0.080	11:41:04	1013	*TEST PASSED*
Ambient Air Blank	0.000	11:42:36		*TEST PASSED*
Control .16 Test 5 EC	0.156	11:43:10	1013	*TEST PASSED*
Control .16 Test 5 IR	0.158	11:43:10	1013	*TEST PASSED*
Ambient Air Blank	0.000	11:44:28		*TEST PASSED*
Control .16 Test 6 EC	0.159	11:44:40	1013	*TEST PASSED*
Control .16 Test 6 IR	0.160	11:44:40	1013	*TEST PASSED*
Ambient Air Blank	0.000	11:51:05		*TEST PASSED*
Control .30 Test 7 EC	0.300	11:51:40	1012	*TEST PASSED*
Control .30 Test 7 IR	0.304	11:51:40	1012	*TEST PASSED*
Ambient Air Blank	0.000	11:53:07		*TEST PASSED*
Control .30 Test 8 EC	0.307	11:53:19	1012	*TEST PASSED*
Control .30 Test 8 IR	0.307	11:53:19	1012	*TEST PASSED*
Ambient Air Blank	0.000	11:53:55		*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: 01/02/2025 ID: 50

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1
Toms River Twp
SERIAL NUMBER: ARMJ-0142

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMJ-0142		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9
Cyl1 Install File No.:	400	Cyl1 Install Date:	01/02/2025	Cyl1 Install No.:	4

Control Tests (0.100%)

Installation Inlet:	#1 (Upper)	Post test active Cyl.:	#2 (Lower)
Dry Gas Lot No.:	302-402921459	Dry Gas Lot Exp.:	12/14/2026

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	12:12:13		*TEST PASSED*
Control Test 1			1012	*TEST PASSED*
EC Result	0.098	12:12:59		*TEST PASSED*
IR Result	0.099	12:12:59		*TEST PASSED*
Ambient Air Blank	0.000	12:14:17		*TEST PASSED*
Control Test 2			1012	*TEST PASSED*
EC Result	0.099	12:14:41		*TEST PASSED*
IR Result	0.099	12:14:41		*TEST PASSED*
Ambient Air Blank	0.000	12:15:58		*TEST PASSED*
Control Test 3			1012	*TEST PASSED*
EC Result	0.099	12:16:23		*TEST PASSED*
IR Result	0.099	12:16:23		*TEST PASSED*
Ambient Air Blank	0.000	12:16:58		*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: 01/02/2025 ID: 50

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2
Toms River Twp
SERIAL NUMBER: ARMJ-0142

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMJ-0142		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9
Cyl2 Install File No.:	256	Cyl2 Install Date:	07/02/2024	Cyl2 Install No.:	2

Control Tests (0.100%)

Installation Inlet:	#2 (Lower)	Post test active Cyl.:	#1 (Upper)
Dry Gas Lot No.:	302-402843436	Dry Gas Lot Exp.:	09/08/2026

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	09:55:37		*TEST PASSED*
Control Test 1			1023	*TEST PASSED*
EC Result	0.101	09:56:23		*TEST PASSED*
IR Result	0.099	09:56:23		*TEST PASSED*
Ambient Air Blank	0.000	09:57:33		*TEST PASSED*
Control Test 2			1023	*TEST PASSED*
EC Result	0.102	09:57:57		*TEST PASSED*
IR Result	0.099	09:57:57		*TEST PASSED*
Ambient Air Blank	0.000	09:59:07		*TEST PASSED*
Control Test 3			1023	*TEST PASSED*
EC Result	0.102	09:59:31		*TEST PASSED*
IR Result	0.100	09:59:31		*TEST PASSED*
Ambient Air Blank	0.000	09:59:57		*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.

Signed: Date: 07/02/2024 ID: 52

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#: 302-402921459
ETHANOL IN NITROGEN

Product Expiration: December 14, 2026

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*	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 herin 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: 1123816776
Date: September 18, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402843436
ETHANOL IN NITROGEN

Product Expiration: September 08, 2026

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

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	263.3	(0.104)

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: September 08, 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: 11/1/2023

Serial Number: ARMJ-0142

Draeger, Inc. JP 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
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 # 50110522
My Commission Expires 8/13/2024

CALIBRATED BY TRANSCAT

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-120-1 Revision 0

Manufacturer: Drager Safety AG & Co. KGaA
Model Number: X-Cal 2000
Description: Breath Alcohol Simulator
Serial Number: ARND-0009
ID: NONE

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

Issue Date: Feb 16, 2024
Calibration Date: Feb 16, 2024
Due Date: Feb 16, 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 preser 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 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 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 nationa (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 m 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 dissemi

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 ma 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 dete 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 specificatio 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 be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Date Received: January 04, 2024
Service Level : R9

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-120-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Cal Proces Uncertaint (k=2; ±)
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	34.01 °C		1.5e-002
Temperature Source: Stability Test							
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	6-Dec-22	30-Jun-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
70.09°F /21.16°C	47.50%	Dewk15	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 measu

Date Received: January 04, 2024
Service Level : R9

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-120-1 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 th measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the reje Identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the â€œDetermining and Verifying Out Of Tolerance (OOT) and/or Op Fail document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Stater

CALIBRATED BY TRANSCAT

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-120-1 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 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 rev 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: January 04, 2024
Service Level : R9

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-120-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

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

Calibrated By:
Electronically Signed By:
Camden Alford

Camden Alford	Feb 16, 2024
Calibration Technician	08:18:11 -05:0

Unit Barcode: 0900B541605

Date Received: January 04, 2024
Service Level : R9

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-220-1 Revision 0

Manufacturer: Wika Instr/Mensor Corp/Trend
Model Number: CPG2300
Description: Portable Barometer
Serial Number: 4100126V
ID: NONE

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

Issue Date: Jan 10, 2024
Calibration Date: Jan 10, 2024
Due Date: Jan 10, 2025

Calibrated To: Manufacturer S
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 preser 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 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 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 nationa (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 m 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 dissemi

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 ma 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 dete 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 specificatio 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 be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Date Received: January 04, 2024
Service Level : R9

CALIBRATED BY TRANSCAT

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-220-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Cal Proces Uncertaint (k=2; ±)
Pressure Measure: 552 to1172 mbara Range							
	550.56mbara	±(0.015% FS)	550.38	550.74	550.50 mbara		1.1e-002
	610.66mbara	±(0.015% FS)	610.48	610.84	610.60 mbara		1.2e-002
	670.94mbara	±(0.015% FS)	670.76	671.12	670.90 mbara		1.3e-002
	742.81mbara	±(0.015% FS)	742.63	742.99	742.70 mbara		1.5e-002
	803.09mbara	±(0.015% FS)	802.91	803.27	803.00 mbara		1.6e-002
	863.48mbara	±(0.015% FS)	863.30	863.66	863.40 mbara		1.7e-002
	923.61mbara	±(0.015% FS)	923.43	923.79	923.60 mbara		1.8e-002
	983.85mbara	±(0.015% FS)	983.67	984.03	983.80 mbara		2.0e-002
	1052.8mbara	±(0.015% FS)	1052.6	1053.0	1052.8 mbara		2.1e-002
	1113.2mbara	±(0.015% FS)	1113.0	1113.4	1113.2 mbara		2.2e-002
	1173.5mbara	±(0.015% FS)	1173.3	1173.7	1173.5 mbara		2.3e-002
	923.61mbara	±(0.015% FS)	923.43	923.79	923.60 mbara		1.8e-002
	863.48mbara	±(0.015% FS)	863.30	863.66	863.40 mbara		1.7e-002
	803.09mbara	±(0.015% FS)	802.91	803.27	803.00 mbara		1.6e-002

Date Received: January 04, 2024
Service Level : R9

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Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date
DewK2	Hart Scientific	2626-H	Hygro-Thermometer, Probe,	8-Mar-23	31-Mar-24
DW09BA	Fluke/DH Instruments	PG7601	Piston Gauge	11-Sep-23	30-Sep-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	4-Jan-23	31-Jan-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
70.06°F /21.14°C	29.40%	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 measu 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 th measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the reje identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the â€œDetermining and Verifying Out Of Tolerance (OOT) and/or Op Fail document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Stater

Date Received: January 04, 2024
Service Level : R9

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Legend

Topic	Description
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 rev 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: January 04, 2024
Service Level : R9

CALIBRATED BY TRANSCAT

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-220-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

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

Calibrated By:
Electronically Signed By:
Fritz Cardona

Fritz Cardona — Jan 10, 2024
Calibration Technician — 13:09:11 -05:0

Unit Barcode: 0900B541818

Date Received: January 04, 2024
Service Level : R9

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

Sales order: 1111663404
NJSP DEPT OF LAW AND PUBLIC SAFETY Date: July 05, 2022

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	

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: Steven Blatchely

"We certify that all the cylinders for the Lot numbers identified herin 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: 1121156486

DRAEGER MEDICAL SYSTEMS INC.; 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 herin 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: 1113360565

DRAEGER MEDICAL SYSTEMS INC.; Date: August 29, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402477284

ETHANOL IN NITROGEN Product Expiration: June 27, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	208.4PPM	(0.080)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	210.9	(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 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: June 27, 2022

APPROVED BY: _____

"We certify that all the cylinders for the Lot numbers identified herin 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

NJSP Date: July 14, 2022

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 herin 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: 4401041NJ
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1123022087
Date: August 18, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402759888
ETHANOL IN NITROGEN

Product Expiration: May 31, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	781.5PPM	(0.300)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	793.1	(0.304)

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: Steven Plutchak

"We certify that all the cylinders for the Lot numbers identified herin 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

Law 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

COLONEL
NEW JERSEY STATE POLICE

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)

DEPARTMENT OF

Law 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

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

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S.P. 293B (Rev. 10/22)

DEPARTMENT OF
Law and Public Safety
This is to certify that

Robert W. Waldrop

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 25th DAY OF March
TWO THOUSAND AND Twenty Four

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

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GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 28th DAY OF April
TWO THOUSAND AND Twenty Three

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S.P. 293B (Rev. 10/22)