

## ALCOTEST 9510 PARAMETER REPORT

### Equipment

Serial No.: ARMH-0017  
Firmware: 8326739 1.5  
WinCE application: 8326738 2.9  
Configuration: 8326737 3.10

Date: 03/17/2025  
Time: 12:49:32

### 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)**  
**Wall Township**

**Equipment**

|                  |               |             |              |        |             |
|------------------|---------------|-------------|--------------|--------|-------------|
| Inst. Model No.: | ALCOTEST 9510 | Serial No.: | ARMH-0017    |        |             |
| Firmware:        | 8326739 1.5   | Config.:    | 8326737 3.10 | WinCE: | 8326738 2.9 |

**Wet Adjust Record**

|                          |                  |            |                   |
|--------------------------|------------------|------------|-------------------|
| Wet Adjust File No.: 570 | Wet Adjust Date: | 03/17/2025 | Wet Adjust No.: 8 |
|                          | Wet Adjust Time: | 14:13:37   |                   |

|                   |            |                     |            |
|-------------------|------------|---------------------|------------|
| Concentration:    | 0.100 %    |                     |            |
| Adjusting Unit:   | X-Cal 2000 | Adj. Unit Ser. No.: | ARRD-0003  |
| Solution Lot No.: | 23240      | Soln. Bottle No.:   | 233        |
|                   |            | Adj. Unit Exp.:     | 10/03/2025 |
|                   |            | 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.

*Robert Waldrop #8256*

|         |                  |        |
|---------|------------------|--------|
| Signed: | Date: 03/17/2025 | ID: 52 |
|---------|------------------|--------|

**ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)**  
**Wall Township**

**Equipment**

|                  |               |             |              |        |             |
|------------------|---------------|-------------|--------------|--------|-------------|
| Inst. Model No.: | ALCOTEST 9510 | Serial No.: | ARMH-0017    |        |             |
| Firmware:        | 8326739 1.5   | Config.:    | 8326737 3.10 | WinCE: | 8326738 2.9 |

**Dry Adjust Record**

|                      |     |                  |            |                 |   |
|----------------------|-----|------------------|------------|-----------------|---|
| Dry Adjust File No.: | 571 | Dry Adjust Date: | 03/17/2025 | Dry Adjust No.: | 8 |
|                      |     | Dry Adjust Time: | 14:40:38   |                 |   |

|                           |                |                    |                            |                    |            |
|---------------------------|----------------|--------------------|----------------------------|--------------------|------------|
| 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: |                | 1006 hPa           | Post-adjust Amb. Pressure: |                    | 1006 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.

*TRP Waldrop #8256*

Signed:

Date: 03/17/2025

ID: 52

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

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0017  
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

**Linearity Record**

Linearity File No.: 572 Lin. Date: 03/17/2025 Lin. No.: 8

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<br>%BAC | Time<br>hh:mm:ss | Barometric<br>Pres. [hPa] | Comment(s)<br>or Status Code |
|-----------------------|----------------|------------------|---------------------------|------------------------------|
| Ambient Air Blank     | 0.000          | 14:59:52         |                           | *TEST PASSED*                |
| Control .04 Test 1 EC | 0.039          | 15:00:30         | 1006                      | *TEST PASSED*                |
| Control .04 Test 1 IR | 0.039          | 15:00:30         | 1006                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:01:33         |                           | *TEST PASSED*                |
| Control .04 Test 2 EC | 0.039          | 15:01:48         | 1006                      | *TEST PASSED*                |
| Control .04 Test 2 IR | 0.039          | 15:01:48         | 1006                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:03:55         |                           | *TEST PASSED*                |
| Control .08 Test 3 EC | 0.079          | 15:04:33         | 1006                      | *TEST PASSED*                |
| Control .08 Test 3 IR | 0.079          | 15:04:33         | 1006                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:05:43         |                           | *TEST PASSED*                |
| Control .08 Test 4 EC | 0.080          | 15:05:58         | 1006                      | *TEST PASSED*                |
| Control .08 Test 4 IR | 0.080          | 15:05:58         | 1006                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:08:08         |                           | *TEST PASSED*                |
| Control .16 Test 5 EC | 0.157          | 15:08:44         | 1007                      | *TEST PASSED*                |
| Control .16 Test 5 IR | 0.159          | 15:08:44         | 1007                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:09:58         |                           | *TEST PASSED*                |
| Control .16 Test 6 EC | 0.158          | 15:10:10         | 1007                      | *TEST PASSED*                |
| Control .16 Test 6 IR | 0.159          | 15:10:10         | 1007                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:17:29         |                           | *TEST PASSED*                |
| Control .30 Test 7 EC | 0.297          | 15:18:05         | 1007                      | *TEST PASSED*                |
| Control .30 Test 7 IR | 0.300          | 15:18:05         | 1007                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:19:27         |                           | *TEST PASSED*                |
| Control .30 Test 8 EC | 0.301          | 15:19:39         | 1007                      | *TEST PASSED*                |
| Control .30 Test 8 IR | 0.302          | 15:19:39         | 1007                      | *TEST PASSED*                |
| Ambient Air Blank     | 0.000          | 15:20:12         |                           | *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.

*TP: [Signature] #8256*

Signed:

Date: 03/17/2025

ID: 52

**ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1**  
**Wall Township**  
**SERIAL NUMBER: ARMH-0017**

**Equipment**

|                        |               |                    |              |                   |             |
|------------------------|---------------|--------------------|--------------|-------------------|-------------|
| Inst. Model No.:       | ALCOTEST 9510 | Serial No.:        | ARMH-0017    |                   |             |
| Firmware:              | 8326739 1.5   | Config.:           | 8326737 3.10 | WinCE:            | 8326738 2.9 |
| Cyl1 Install File No.: | 627           | Cyl1 Install Date: | 06/10/2025   | Cyl1 Install No.: | 6           |

**Control Tests (0.100%)**

|                     |               |                        |            |
|---------------------|---------------|------------------------|------------|
| Installation Inlet: | #1 (Upper)    | Post test active Cyl.: | #1 (Upper) |
| Dry Gas Lot No.:    | 302-402847878 | Dry Gas Lot Exp.:      | 09/14/2026 |

**Data Summary**

| Function          | Result<br>%BAC | Time<br>hh:mm:ss | Barometric<br>Pres. [hPa] | Comment(s)<br>or Status Code |
|-------------------|----------------|------------------|---------------------------|------------------------------|
| Ambient Air Blank | 0.000          | 12:59:51         |                           | *TEST PASSED*                |
| Control Test 1    |                |                  | 1008                      | *TEST PASSED*                |
| EC Result         | 0.101          | 13:00:37         |                           | *TEST PASSED*                |
| IR Result         | 0.100          | 13:00:37         |                           | *TEST PASSED*                |
| Ambient Air Blank | 0.000          | 13:01:41         |                           | *TEST PASSED*                |
| Control Test 2    |                |                  | 1008                      | *TEST PASSED*                |
| EC Result         | 0.101          | 13:02:06         |                           | *TEST PASSED*                |
| IR Result         | 0.100          | 13:02:06         |                           | *TEST PASSED*                |
| Ambient Air Blank | 0.000          | 13:03:11         |                           | *TEST PASSED*                |
| Control Test 3    |                |                  | 1008                      | *TEST PASSED*                |
| EC Result         | 0.101          | 13:03:36         |                           | *TEST PASSED*                |
| IR Result         | 0.100          | 13:03:36         |                           | *TEST PASSED*                |
| Ambient Air Blank | 0.000          | 13:03:59         |                           | *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.

*TR Waldrop #8256*

Signed:

Date: 06/10/2025

ID: 52

**ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2**  
**Wall Township**  
**SERIAL NUMBER: ARMH-0017**

**Equipment**

|                        |               |                    |              |                   |             |
|------------------------|---------------|--------------------|--------------|-------------------|-------------|
| Inst. Model No.:       | ALCOTEST 9510 | Serial No.:        | ARMH-0017    |                   |             |
| Firmware:              | 8326739 1.5   | Config.:           | 8326737 3.10 | WinCE:            | 8326738 2.9 |
| Cyl2 Install File No.: | 573           | Cyl2 Install Date: | 03/17/2025   | Cyl2 Install No.: | 5           |

**Control Tests (0.100%)**

|                     |               |                        |            |
|---------------------|---------------|------------------------|------------|
| Installation Inlet: | #2 (Lower)    | Post test active Cyl.: | #1 (Upper) |
| Dry Gas Lot No.:    | 302-403035121 | Dry Gas-Lot Exp.:      | 05/02/2027 |

**Data Summary**

| Function          | Result<br>%BAC | Time<br>hh:mm:ss | Barometric<br>Pres. [hPa] | Comment(s)<br>or Status Code |
|-------------------|----------------|------------------|---------------------------|------------------------------|
| Ambient Air Blank | 0.000          | 15:36:49         |                           | *TEST PASSED*                |
| Control Test 1    |                |                  | 1007                      | *TEST PASSED*                |
| EC Result         | 0.099          | 15:37:38         |                           | *TEST PASSED*                |
| IR Result         | 0.100          | 15:37:38         |                           | *TEST PASSED*                |
| Ambient Air Blank | 0.000          | 15:38:50         |                           | *TEST PASSED*                |
| Control Test 2    |                |                  | 1007                      | *TEST PASSED*                |
| EC Result         | 0.100          | 15:39:17         |                           | *TEST PASSED*                |
| IR Result         | 0.100          | 15:39:17         |                           | *TEST PASSED*                |
| Ambient Air Blank | 0.000          | 15:40:31         |                           | *TEST PASSED*                |
| Control Test 3    |                |                  | 1007                      | *TEST PASSED*                |
| EC Result         | 0.100          | 15:40:57         |                           | *TEST PASSED*                |
| IR Result         | 0.100          | 15:40:57         |                           | *TEST PASSED*                |
| Ambient Air Blank | 0.000          | 15:41:29         |                           | *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.

*TRP [Signature] #8256*

Signed:

Date: 03/17/2025

ID: 52

# 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:  $\pm 0.002$  BrAC or  $\pm 2\%$  whichever is greater.  
CALGAZ LOT#: 302-402847878  
ETHANOL IN NITROGEN

Product Expiration: September 14, 2026

| COMPONENT                | PPM      | ( BrAC ) |
|--------------------------|----------|----------|
| ETHANOL                  | 260.5PPM | (0.100)  |
| NITROGEN                 | BAL      |          |
| AVERAGE ANALYTICAL VALUE | PPM      | ( BrAC ) |
| ETHANOL                  | 263.2    | (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: September 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

Part Number: 4401036  
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1130435101  
Date: May 28, 2024

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer  
ANALYTICAL ACCURACY:  $\pm 0.002$  BrAC or  $\pm 2\%$  whichever is greater.  
CALGAZ LOT#: 302-403035121  
ETHANOL IN NITROGEN

Manufactured Date: May 02, 2024  
Product Expiration: May 02, 2027

| COMPONENT                | PPM      | ( BrAC ) |
|--------------------------|----------|----------|
| ETHANOL                  | 260.5PPM | (0.100)  |
| NITROGEN                 | BAL      |          |
| AVERAGE ANALYTICAL VALUE | PPM      | ( BrAC ) |
| ETHANOL                  | 263.0    | (0.101)  |

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

\* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

### TRACEABILITY

#### Preparation:

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

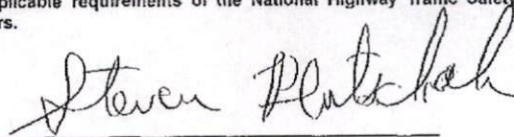
#### Analytical:

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

No effecting environmental conditions during analysis.

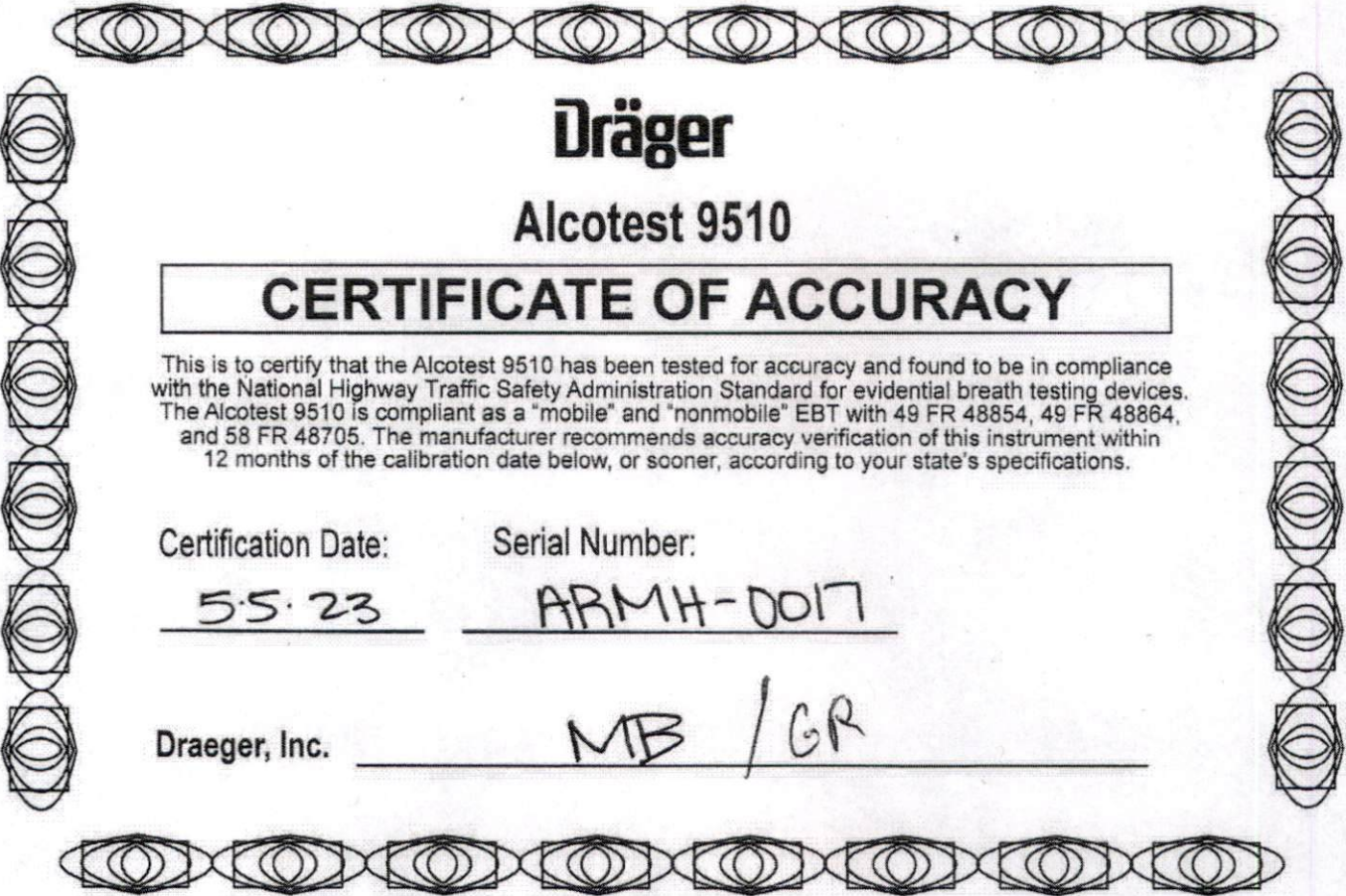
\*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).  
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

APPROVED BY:



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

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



# 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:

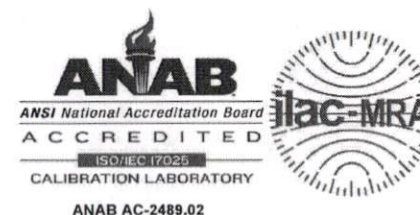
5.5.23

ARMH-0017

Draeger, Inc.

MB / GR

Customer: DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
PO Number: S1O4303440829



**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/NCCL 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/NCCL Z540.3-2006 (R2013) are also covered.

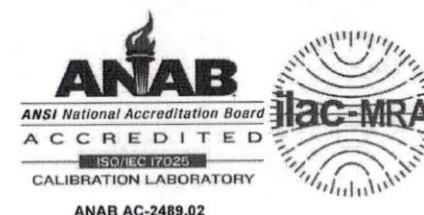
Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units of the International System of Units (SI), 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. Measurements are made by reference to 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/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 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 | O<br>O<br>T | Cal Process<br>Uncertainty<br>(k=2; ±) | Measurement<br>Uncertainty<br>(k=2; ±) | Units | TUR     |
|-------------------------------------------|-----------|-------------|-----------|------------|--------------------|-------------|----------------------------------------|----------------------------------------|-------|---------|
| <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      | 34.01 °C           |             | 1.5e-002                               | 1.6e-002                               | °C    | 1.3 : 1 |
| <b>Temperature Source: Stability Test</b> |           |             |           |            |                    |             |                                        |                                        |       |         |
| Stability Test                            | 0.00°C    | ±( 0.02 °C) | -0.02     | 0.02       | 0.00 °C            |             | 5.0e-003                               | 7.6e-003                               | °C    | 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-&05H1409-3-1      | AF/AL |
| HP927312 | Hart Scientific/Fluke | 1575         | Super Thermometer             | 10-Jul-24 | 31-Jan-26 | 5-&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.

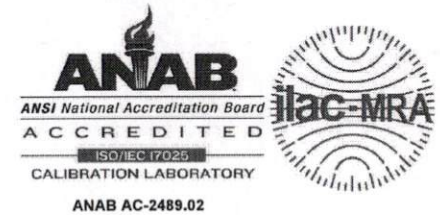
## Environmental Data

| 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

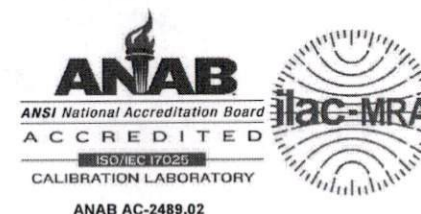
Customer: DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
PO Number: S1O4303440829



**Certificate/SO Number: 5-F2R0O-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: S1O4303440829

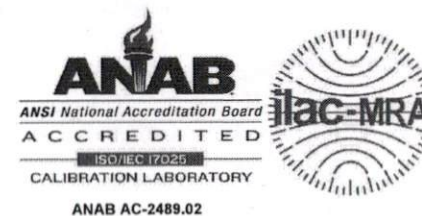


Certificate/SO Number: 5-F2R0O-220-1 Revision 0

### 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(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                                                                                                                                                                              |

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

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

**Reviewed By:**  
 **Electronically Signed By:**  
Daniel Beights for

Jose Martinez Oct 03, 2024  
Calibration Technician 18:27:48 -04:00

Josh Soileau Oct 03, 2024  
Lab Manager 19:24:44 -04:00

Unit Barcode:



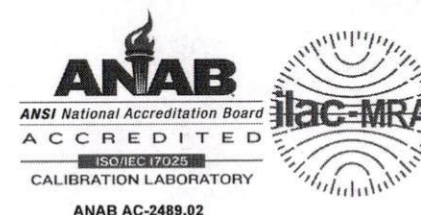
0900B587245

Date Received: October 01, 2024  
Service Level : R9

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

Customer Number: 1-659111-000  
OPS-F20-014R11 07/27/23 FP001R9 4/9/2021

**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
**PO Number:** S1O4303405716



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

**Manufacturer:** Wika 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/NC SL 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/NC SL 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/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 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).



## 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 # 50110522  
My Commission Expires 8/13/2024

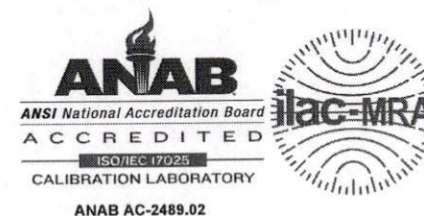


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Printed on Recycled Paper and Recyclable



**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
**PO Number:** S1O4303405716



**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-7100/7600-10-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.

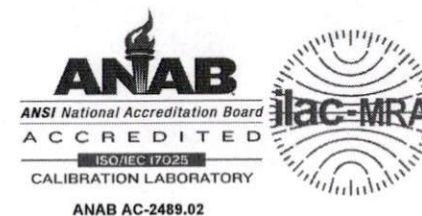
### Environmental Data

| 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



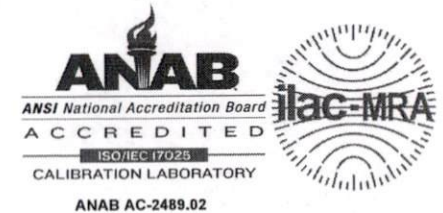
Certificate/SO Number: 5-F2D8A-80-1 Revision 0

As Found/As Left Data

| Description                          | Setpoints  | Accuracy     | Low Limit | High Limit | As Found / As Left | O<br>O<br>T | Cal Process<br>Uncertainty<br>(k=2; ±) | Measurement<br>Uncertainty<br>(k=2; ±) | Units | TUR      |
|--------------------------------------|------------|--------------|-----------|------------|--------------------|-------------|----------------------------------------|----------------------------------------|-------|----------|
| 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     | 10.626 psia        |             | 2.0e-004                               | 6.2e-004                               | psia  | 14.9 : 1 |
|                                      | 11.647psia | ±(0.015% FS) | 11.644    | 11.650     | 11.646 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  | 12.6 : 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     | 11.646 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  
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PO Number: S1O4303405716

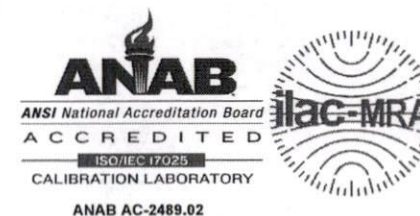


Certificate/SO Number: 5-F2D8A-80-1 Revision 0

## 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                                                                                                                                                                              |

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

**Calibrated By:**  
 **Electronically Signed By:**  
Alex Spilker

**Reviewed By:**  
 **Electronically Signed By:**  
Christopher Naylor for

Alex Spilker Sep 26, 2024  
Calibration Technician 21:45:28 -04:00

Josh Soileau Sep 27, 2024  
Lab Manager 14:29:05 -04:00

Unit Barcode:



0900B581617

Date Received: September 03, 2024  
Service Level: R9

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

Customer Number: 1-659111-000  
OPS-F20-014R11 07/27/23 FP001R9 4/9/2021

# CERTIFICATE OF ANALYSIS

## EBS - ETHANOL BREATH STANDARD

NJSP DEPT OF LAW AND PUBLIC SAFETY

Sales order: 1111663404

Date: July 05, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY:  $\pm 0.002$  BrAC or  $\pm 2\%$  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

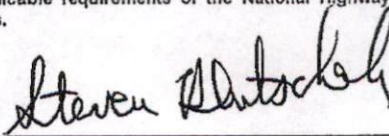
No effecting environmental conditions during analysis.

\*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:



"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:  $\pm 0.002$  BrAC or  $\pm 2\%$  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 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 178.65 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:  $\pm 0.002$  BrAC or  $\pm 2\%$  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 6th January 2022 applies

#### Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

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

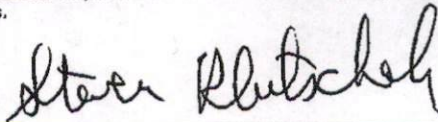
No effecting environmental conditions during analysis.

\*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: 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 178.65 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

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# CERTIFICATE OF ANALYSIS

## EBS - ETHANOL BREATH STANDARD

NJSP

Sales order: 1111709457

Date: July 19, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY:  $\pm 0.002$  BrAC or  $\pm 2\%$  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 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

**CALGAZ, a division of Airgas USA LLC**

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251

DEPARTMENT OF  
**Traffic and Public Safety**  
State is to certify that

**Robert W. Waldrop**

**Breath Test Coordinator/Instructor**

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSIS PERMANENT TO CHAPTER 142 OF

THE LAWS OF NEW JERSEY IN THE OPERATION OF THE **Alcotest 9510**

A LICENSE TO OPERATE A MOTOR VEHICLE

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS **25th** DAY OF **March**

TWO THOUSAND AND **Twenty Five**

*D. J. P. M.*  
CLERK  
NEW JERSEY STATE POLICE

*W. R. Waldrop*  
ATTESTING OFFICER  
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

| DATE | Refresher Course<br>PLACE | INSTRUCTOR |
|------|---------------------------|------------|
| 1.   |                           |            |
| 2.   |                           |            |
| 3.   |                           |            |
| 4.   |                           |            |
| 5.   |                           |            |
| 6.   |                           |            |
| 7.   |                           |            |
| 8.   |                           |            |
| 9.   |                           |            |
| 10.  |                           |            |

S.P. 2008 (Rev. 10/22)

DEPARTMENT OF  
**Traffic and Public Safety**  
State is to certify that

**Robert W. Waldrop**

**New Jersey State Police**

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSIS PERMANENT TO CHAPTER 142 OF

THE LAWS OF NEW JERSEY IN THE OPERATION OF THE **Alcotest 9510**

A LICENSE TO OPERATE A MOTOR VEHICLE

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS **28th** DAY OF **April**

TWO THOUSAND AND **Twenty Three**

*D. J. P. M.*  
CLERK  
NEW JERSEY STATE POLICE

*W. R. Waldrop*  
ATTESTING OFFICER  
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

| DATE | Refresher Course<br>PLACE | INSTRUCTOR           |
|------|---------------------------|----------------------|
| 1.   | 3-27-25 MCFR              | <i>W. R. Waldrop</i> |
| 2.   |                           |                      |
| 3.   |                           |                      |
| 4.   |                           |                      |
| 5.   |                           |                      |
| 6.   |                           |                      |
| 7.   |                           |                      |
| 8.   |                           |                      |
| 9.   |                           |                      |
| 10.  |                           |                      |

S.P. 2008 (Rev. 10/22)