

## ALCOTEST 9510 PARAMETER REPORT

### Equipment

Serial No.: ARMH-0009  
Firmware: 8326739 1.5  
WinCE application: 8326738 2.9  
Configuration: 8326737 3.10

Date: 03/17/2023  
Time: 12:31:06

### 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)**  
**Marlboro Township**

**Equipment**

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMH-0009	WinCE:	8326738 2.9
Firmware:	8326739 1.5	Config.:	8326737 3.10		

**Wet Adjust Record**

Wet Adjust File No.:	109	Wet Adjust Date:	03/17/2023	Wet Adjust No.:	3
		Wet Adjust Time:	13:58:27		

Concentration:	0.100 %	Adj. Unit Ser. No.:	ARND-0003	Adj. Unit Exp.:	10/05/2023
Adjusting Unit:	X-Cal 2000	Soln. Bottle No.:	1399	Adjust Soln. Exp.:	06/23/2023
Solution Lot No.:	21230				

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

**Result**

**Procedure completed successfully.**

**Coordinator**

Last Name: Mimikos -	First Name: Nicholas	MI: E	Badge No.: 7413
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On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

*TPRE / AB #7413*

Signed:

Date: 03/17/2023

ID: 3

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

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0009  
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

**Dry Adjust Record**

Dry Adjust File No.: 110 Dry Adjust Date: 03/17/2023 Dry Adjust No.: 3  
Dry Adjust Time: 14:13:08

Concentration: 0.100 %  
Dry Gas Lot No.: 302-402448281 Adjust Gas Exp.: 05/19/2025  
Barom. Model No.: Mensor CPG2300 Barom. Serial No.: 41001275 Barom. Cert. Exp.: 10/14/2023  
Pre-adjust Amb. Pressure: 997 hPa Post-adjust Amb. Pressure: 997 hPa

**Result**

**Procedure completed successfully.**

**Coordinator**

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

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.

*TPR II / ADJ 7413*

Signed:

Date: 03/17/2023

ID: 3

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

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0009  
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

**Linearity Record**

Linearity File No.: 111 Lin. Date: 03/17/2023 Lin. No.: 3

0.040% Dry Gas Lot No.: 1486624 Adjust. Gas Exp.: 04/26/2024  
0.080% Dry Gas Lot No.: 1346773 Adjust. Gas Exp.: 07/08/2023  
0.160% Dry Gas Lot No.: 1523726 Adjust. Gas Exp.: 07/16/2024  
0.300% Dry Gas Lot No.: 1511968 Adjust. Gas Exp.: 06/21/2024

**Data Summary**

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	14:20:36		*TEST PASSED*
Control .04 Test 1 EC	0.038	14:21:15	997	*TEST PASSED*
Control .04 Test 1 IR	0.039	14:21:15	997	*TEST PASSED*
Ambient Air Blank	0.000	14:22:21		*TEST PASSED*
Control .04 Test 2 EC	0.039	14:22:37	997	*TEST PASSED*
Control .04 Test 2 IR	0.039	14:22:37	997	*TEST PASSED*
Ambient Air Blank	0.000	14:23:58		*TEST PASSED*
Control .08 Test 3 EC	0.078	14:24:35	997	*TEST PASSED*
Control .08 Test 3 IR	0.079	14:24:35	997	*TEST PASSED*
Ambient Air Blank	0.000	14:25:45		*TEST PASSED*
Control .08 Test 4 EC	0.079	14:26:01	997	*TEST PASSED*
Control .08 Test 4 IR	0.080	14:26:01	997	*TEST PASSED*
Ambient Air Blank	0.000	14:27:27		*TEST PASSED*
Control .16 Test 5 EC	0.156	14:28:05	997	*TEST PASSED*
Control .16 Test 5 IR	0.159	14:28:05	997	*TEST PASSED*
Ambient Air Blank	0.000	14:29:21		*TEST PASSED*
Control .16 Test 6 EC	0.157	14:29:37	997	*TEST PASSED*
Control .16 Test 6 IR	0.160	14:29:37	997	*TEST PASSED*
Ambient Air Blank	0.000	14:31:04		*TEST PASSED*
Control .30 Test 7 EC	0.289	14:31:38	997	*TEST PASSED*
Control .30 Test 7 IR	0.296	14:31:38	997	*TEST PASSED*
Ambient Air Blank	0.000	14:33:01		*TEST PASSED*
Control .30 Test 8 EC	0.292	14:33:13	997	*TEST PASSED*
Control .30 Test 8 IR	0.299	14:33:13	997	*TEST PASSED*
Ambient Air Blank	0.000	14:33:46		*TEST PASSED*

**Result**

All tests within acceptable tolerance.

**Coordinator**

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

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.

*TPR II AB 7413*

Signed:

Date: 03/17/2023

ID: 3

**ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1**  
**Marlboro Township**  
**SERIAL NUMBER: ARMH-0009**

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0009  
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9  
 Cyl1 Install File No.: 112 Cyl1 Install Date: 03/17/2023 Cyl1 Install No.: 2

**Control Tests (0.100%)**

Installation Inlet: #1 (Upper) Post test active Cyl.: #2 (Lower)  
 Dry Gas Lot No.: 302-402422318 Dry Gas Lot Exp.: 05/05/2025

**Data Summary**

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	14:36:36		*TEST PASSED*
Control Test 1			996	*TEST PASSED*
EC Result	0.098	14:37:23		*TEST PASSED*
IR Result	0.099	14:37:23		*TEST PASSED*
Ambient Air Blank	0.000	14:38:38		*TEST PASSED*
Control Test 2			996	*TEST PASSED*
EC Result	0.098	14:39:04		*TEST PASSED*
IR Result	0.099	14:39:04		*TEST PASSED*
Ambient Air Blank	0.000	14:40:19		*TEST PASSED*
Control Test 3			996	*TEST PASSED*
EC Result	0.098	14:40:45		*TEST PASSED*
IR Result	0.099	14:40:45		*TEST PASSED*
Ambient Air Blank	0.000	14:41:17		*TEST PASSED*

**Result**

**All tests within acceptable tolerance.**

**Coordinator**

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

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.

*TPZ # 7413*

Signed:

Date: 03/17/2023

ID: 3

**ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2**  
**Marlboro Township**  
**SERIAL NUMBER: ARMH-0009**

**Equipment**

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMH-0009  
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9  
Cyl2 Install File No.: 29 Cyl2 Install Date: 06/21/2022 Cyl2 Install No.: 1

**Control Tests (0.100%)**

Installation Inlet: #2 (Lower) Post test active Cyl.: #1 (Upper)  
Dry Gas Lot No.: 302-402396000 Dry Gas Lot Exp.: 03/21/2025

**Data Summary**

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	10:46:16		*TEST PASSED*
Control Test 1			1015	*TEST PASSED*
EC Result	0.097	10:47:05		*TEST PASSED*
IR Result	0.098	10:47:05		*TEST PASSED*
Ambient Air Blank	0.000	10:48:04		*TEST PASSED*
Control Test 2			1015	*TEST PASSED*
EC Result	0.098	10:48:32		*TEST PASSED*
IR Result	0.099	10:48:32		*TEST PASSED*
Ambient Air Blank	0.000	10:49:32		*TEST PASSED*
Control Test 3			1015	*TEST PASSED*
EC Result	0.098	10:49:59		*TEST PASSED*
IR Result	0.099	10:49:59		*TEST PASSED*
Ambient Air Blank	0.000	10:50:19		*TEST PASSED*

**Result**

All tests within acceptable tolerance.

**Coordinator**

Last Name: ALCOTT - First Name: KEVIN MI: W Badge No.: 6704

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.

*Sgt K A 6704*

Signed:

Date: 06/21/2022

ID: 1

# CERTIFICATE OF ANALYSIS

## EBS - ETHANOL BREATH STANDARD

Sales order: 1110403957

Date: May 16, 2022

**DRAEGER MEDICAL SYSTEMS INC.**

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402422318

ETHANOL IN NITROGEN

Product Expiration: May 05, 2025

COMPONENT	PPM	( BrAC )
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	261.8	(0.100)

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 05, 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: 1109411181  
Date: April 08, 2022

**NJSP DEPT of LAW and PUBLIC SAFETY**

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer  
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.  
CALGAZ LOT#: 302-402396000  
ETHANOL IN NITROGEN

Product Expiration: March 21, 2025

COMPONENT	PPM	( BrAC )
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	( BrAC )
ETHANOL	261.0	(0.100)

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

\* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

#### TRACEABILITY

##### Preparation:

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No effecting environmental conditions during analysis.

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

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

Manufactured Date: March 21, 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





# Dräger

## Alcotest 9510

### CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 9510 has been tested for accuracy and found to be in compliance with the National Highway Traffic Safety Administration Standard for evidential breath testing devices. The Alcotest 9510 is compliant as a "mobile" and "nonmobile" EBT with 49 FR 48854, 49 FR 48864, and 58 FR 48705. The manufacturer recommends accuracy verification of this instrument within 12 months of the calibration date below, or sooner, according to your state's specifications.

Certification Date:

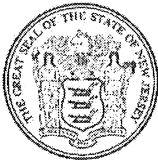
Serial Number:

6/6/2022

ARMH-0009

Dräger, Inc.

GR



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

SHEILA Y. OLIVER
Lt. Governor

GURBIR S. GREWAL
Attorney General

PATRICK J. CALLAHAN
Colonel

CERTIFICATION OF ANALYSIS
0.100 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1174 to 0.1246 grams per 100 milliliters of solution.

MANUFACTURER: Draeger, Inc.

ANALYSIS DATE: 07/08/2021

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 21230

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1200 to 0.1218 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 23, 2023.

As Assistant Chief Forensic Scientist 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
Assistant Chief Forensic Scientist
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 20 day of July, 2021.
Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110622
My Commission Expires 8/13/2024



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**Customer:** DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
**PO Number:** US74302835073



**Certificate/ISO Number: 5-E0Z7D-160-1 Revision 0**

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

**As-Found:** In Tolerance  
**As-Left:** In Tolerance  
**Issue Date:** Oct 05, 2022  
**Calibration Date:** Oct 05, 2022  
**Due Date:** Oct 05, 2023

**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.

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 ANS/NCSL Z540.3-2006 (R2013) are also covered.

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

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

Uncertainties are reported with a coverage factor  $k=2$ , providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/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: US74302835073



**Certificate/SO Number: 5-E0Z7D-160-1 Revision 0**

**As Found/As Left Data**

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process		Measurement Uncertainty (k=2; ±)	Units	TUR
						O	T			
<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	33.99 °C		2.2e-002	2.5e-002	°C	0.9 : 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	1.3e-002	°C	4.0 : 1

Field not applicable.

**Traceable Standards**

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
05H1259	AccuMac Corporation	AM1760-12-S	Secondary SPRT	10-Jan-22	31-Jan-23	15-805H1259-3-1	AF/AL
HP927312	Hart Scientific/Fluke	1575	Super Thermometer	18-May-21	30-Nov-22	5-8HP927312-5-1	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
70.6°F /21.45°C	46.30%	Dewk14	G	Temperature

Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: US74302835073



Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

### 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:** US74302835073



**Certificate/SO Number: 5-E0Z7D-160-1 Revision 0**

**Legend**

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

**CALIBRATED**  
BY **TRANSCAT**

# CERTIFICATE OF CALIBRATION



Customer: DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
PO Number: US74302835073

Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

Calibrated At: 16115 Park Row  
Houston, TX 77084


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

Unit Barcode:   
0900B436552

Date Received: October 03, 2022  
Service Level: R9

Calibrated By:   
Electronically Signed By: Camden Alford

Camden Alford  
Calibration Technician  
Oct 05, 2022  
09:21:45 -04:00

Reviewed By:   
Electronically Signed By: Scott D. Caine

Scott D. Caine  
Lab Manager  
Oct 05, 2022  
09:45:00 -04:00

Certificate - Page 5 of 5

Customer Number: 1-659111-00C  
OPS-F20-014R10 09/29/21 FP001R9 4/9/2021

Customer: DRAEGER INC  
7256 S SAM HOUSTON PKWY W  
STE 100  
HOUSTON, TX 77085  
PO Number: US74302835073



**Certificate/SO Number: 5-E0Z7D-220-1 Revision 0**

Manufacturer: Mensor Corp  
Model Number: CPG2300  
Description: Portable Barometer  
Serial Number: 41001275  
ID: NONE

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

Issue Date: Oct 14, 2022  
Calibration Date: Oct 14, 2022  
Due Date: Oct 14, 2023

Calibrated To: Manufacturer Specification

Calibration Procedure: 1-AC107288-0

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

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

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

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

Uncertainties are reported with a coverage factor  $k=2$ , providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/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: US74302835073

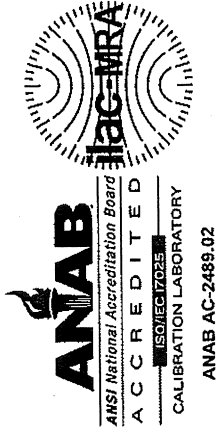
Certificate/SO Number: 5-E0Z7D-220-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	As Found/As Left			Cal Process		Units	TUR
			Low Limit	High Limit	As Found / As Left	O Uncertainty (k=2; ±)	O Measurement Uncertainty (k=2; ±)		
<b>Pressure Measure: 552 to 1172 mbara Range</b>									
	550.1mbara	±(0.015% FS)	549.9	550.3	550.1 mbara	1.2e-002	1.2e-001	mbara	16.5 : 1
	610.0mbara	±(0.015% FS)	609.8	610.2	610.0 mbara	1.3e-002	1.2e-001	mbara	14.9 : 1
	680.4mbara	±(0.015% FS)	680.2	680.6	680.4 mbara	1.5e-002	1.2e-001	mbara	13.4 : 1
	734.3mbara	±(0.015% FS)	734.1	734.5	734.3 mbara	1.6e-002	1.2e-001	mbara	12.4 : 1
	804.7mbara	±(0.015% FS)	804.5	804.9	804.6 mbara	1.8e-002	1.2e-001	mbara	11.3 : 1
	864.9mbara	±(0.015% FS)	864.7	865.1	864.9 mbara	1.9e-002	1.2e-001	mbara	10.5 : 1
	924.9mbara	±(0.015% FS)	924.7	925.1	924.9 mbara	2.0e-002	1.2e-001	mbara	9.8 : 1
	985.2mbara	±(0.015% FS)	985.0	985.4	985.2 mbara	2.2e-002	1.2e-001	mbara	9.2 : 1
	1043.9mbara	±(0.015% FS)	1043.7	1044.1	1043.9 mbara	2.3e-002	1.3e-001	mbara	8.7 : 1
	1114.2mbara	±(0.015% FS)	1114.0	1114.4	1114.2 mbara	2.5e-002	1.2e-001	mbara	8.2 : 1
	1174.6mbara	±(0.015% FS)	1174.4	1174.8	1174.5 mbara	2.6e-002	1.2e-001	mbara	7.7 : 1
	924.9mbara	±(0.015% FS)	924.7	925.1	924.9 mbara	2.0e-002	1.2e-001	mbara	9.8 : 1
	864.9mbara	±(0.015% FS)	864.7	865.1	864.9 mbara	1.9e-002	1.2e-001	mbara	10.5 : 1
	804.7mbara	±(0.015% FS)	804.5	804.9	804.6 mbara	1.8e-002	1.2e-001	mbara	11.3 : 1

Field not applicable.

Customer: DRAEGER INC  
 7256 S SAM HOUSTON PKWY W  
 STE 100  
 HOUSTON, TX 77085  
 PO Number: US74302835073



## Certificate/ISO Number: 5-E0Z7D-220-1 Revision 0

### Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DW11BA	Fluke/DH Instruments	PG7601	Piston Gauge	12-Apr-22	12-Apr-23	5-&DW11BA-13-1	AF/AL
DW11CA	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	19-Sep-22	19-Dec-22	5-&DW11CA-18-1	AF/AL
DW11LOW	Fluke/DH Instruments	PC-7100/7600-10-TC	Gas Piston-Cylinder Module	8-Apr-22	30-Apr-27	5-&DW11LOW-3-1	AF/AL
DW11MASS	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	29-Dec-21	31-Dec-22	5-&DW11MASS-6-1	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
71.10°F / 21.72°C	52.20%	05H1297	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: US74302835073



Certificate/SO Number: 5-E0Z7D-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: US74302835073



Certificate/SO Number: 5-E0Z7D-220-1 Revision 0

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

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

**Unit Barcode:**  
  
0900B429643

**Date Received:** October 03, 2022  
**Service Level:** R9

**Calibrated By:**  
  
Fritz Cardona  
Calibration Technician

**Reviewed By:**  
  
Electronically Signed By:  
Josh Soileau for  
Scott D. Caine  
Lab Manager

Oct 14, 2022  
09:53:35 -04:00

Oct 14, 2022  
09:53:35 -04:00

Oct 14, 2022  
14:53:44 -04:00

# CERTIFICATE OF ANALYSIS

## EBS - ETHANOL BREATH STANDARD

Sales order: 1111663404

Date: July 05, 2022

NJSP DEPT OF LAW AND PUBLIC SAFETY

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402448281

ETHANOL IN NITROGEN

Product Expiration: May 19, 2025

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*	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 19, 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

# ANALYSIS CERTIFICATION

METHOD OF PREPARATION : GRAVIMETRIC / PRESSURE TRANSFILLING

METHOD OF ANALYSIS : IR Breath Alcohol Analyzer

ACCURACY :  $\pm 0.002$  BrAC or  $\pm 2\%$  whichever is greater.

LOT NO. & QTY.	COMP. 1 C <sub>2</sub> H <sub>5</sub> OH	COMP. 2 N <sub>2</sub>	COMP. 3	COMP. 4	COMP. 5	COMP. 6	Exp Date
1486624(8)	104.2PPM (0.040 BrAC) BALANCE						04/26/24

## 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 219908, 219911, 219909, or 219926 dated, 6th January 2021 applies.

WEIGHT SETS USED: Kit#80141, Test#3094344A, Kit#106, 27, 103, 107, 113, 22, Test#VA-21-12587-L,F,T,P, Kit#IM1966, Test#VA-21-12587N, Kit#35, 104, 39, 105, 108, 109, 111 Test#VA-21-12587-I.

No affecting environmental conditions during analysis.

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.

REQUESTED BY : DRAEGER INC

CUSTOMER PURCHASE ORDER NUMBER : US44302368647

PACKING LIST NUMBER : 21272590

CERTIFICATION DATE : April 26, 2021

ANALYSIS BY : Steven Plutschek  
Quality Representative

"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

# ANALYSIS CERTIFICATION

METHOD OF PREPARATION : GRAVIMETRIC / PRESSURE TRANSFILLING

METHOD OF ANALYSIS : IR Breath Alcohol Analyzer

ACCURACY :  $\pm$  0.002 BrAC or  $\pm$  2% whichever is greater.

LOT NO. & QTY.	COMP. 1 C <sub>2</sub> H <sub>5</sub> OH	COMP. 2 N <sub>2</sub>	COMP. 3	COMP. 4	COMP. 5	COMP. 6	Exp Date
1346773 (24)	208.4PPM						
	(0.080 BrAC) BALANCE						07/08/23

## 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 121088, 121097, 121091, or 121100 dated, 18th January 2019 applies.

WEIGHT SETS USED: Kit #92231, Test #2740564, Kit # 03610, Test # VA-19-1135 T3 Test # VA-19-11350B, T5 Test #VA-19-11350F, VA-19-11350E, VA-19-11350D, IM1966 Test VA-18-11340H

No affecting environmental conditions during analysis.

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.

REQUESTED BY : DRAEGER INC

CUSTOMER PURCHASE ORDER NUMBER : UH54302105642

PACKING LIST NUMBER : 16572762

CERTIFICATION DATE : July 8, 2020

ANALYSIS BY : Steve Deutschel  
Quality Representative

"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 INC HOUSTON  
HOUSTON, TX 77085

REF#: 22053560  
DOC#: US44302425104  
CUST. ITEM #: 4401040  
DATE: Jul. 16, 2021

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer  
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.  
CALGAZ LOT#: 1523726  
ETHANOL IN NITROGEN

PRODUCT EXPIRATION: Jul. 16, 2024

COMPONENT	PPM	( BrAC )
ETHANOL	416.8	(0.160)
NITROGEN	BAL	

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND50144	260.6

\* Certification traceability is recognized by NIST through the CIPM MRA.

**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 219908, 219911, 219909, or 219926 dated, 6th January 2021 applies.

**Analytical:**

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND50144-20201218, A679, ND18363-20191203, A650

No affecting 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: Jul. 16, 2021

CALGAZ CYLINDER SIZE: 6D

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 INC HOUSTON  
HOUSTON, TX 77085

REF#: 21775602  
DOC#: US44302405855  
CUST. ITEM #: 4401041  
DATE: Jun. 23, 2021

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer  
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.  
CALGAZ LOT#: 1511968  
ETHANOL IN NITROGEN

PRODUCT EXPIRATION: Jun. 21, 2024

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

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND50144	260.6

\* Certification traceability is recognized by NIST through the CIPM MRA.

**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 219908, 219911, 219909, or 219926 dated, 6th January 2021 applies.

**Analytical:**

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND50144-20201218, A679, ND18363-20191203, A650

No affecting 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: Jun. 21, 2021

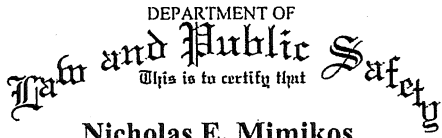
CALGAZ CYLINDER SIZE: 6D

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



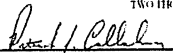
**Nicholas E. Mimikos**

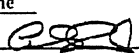
**New Jersey State Police**

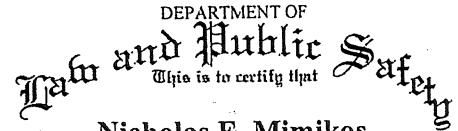
IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSIS PURSUANT TO CHAPTER 142 OF

THE LAWS OF 1986 IN THE OPERATION OF THE Alcotest 9510  
 A METHOD TO DETERMINE INTOXICATION  
 GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June

TWO THOUSAND AND Twenty One

  
 COLONEL  
 NEW JERSEY STATE POLICE

  
 ATTORNEY GENERAL  
 STATE OF NEW JERSEY




**Nicholas E. Mimikos**

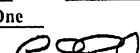
**Breath Test Coordinator/Instructor**

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF

THE LAWS OF 1986 IN THE OPERATION OF THE Alcotest 9510  
 A METHOD TO DETERMINE INTOXICATION  
 GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June

TWO THOUSAND AND Twenty One

  
 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. 01/18)

ORIGINAL COURSE DATES

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

S.P. 293B (Rev. 01/18)