ALCOTEST 9510 PARAMETER REPORT

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

07/18/2023 Date: Time: 12:59:49

Dor	ameter
rai	ametei
:-	blow time
min.	DIOW HITHE

min. blow time min. breath volume for females of age 60+ min. breath volume for all other min. blow flow plateau detection limit plateau detection start conc.	5.0 1.2 1.5 4.5 4 70	s L L L/min % microgram/L
neg. flow detection (part. vacuum) neg. flow detection sensitivy	10.0 10	hPa
cal. gas abort volume result-to-zero limit ambient air check limit	0.4 0.0050 0.0049	L %BAC %BAC
interference det. d-criterion limit abs. interference det. d-criterion limit rel. interference det. t-criterion limit abs. interference det. t-criterion limit rel.	38 10.0 8 2.1	microgram/L % microgram/L %
IR CO2 offset IR H2O offset EC H2O offset	10 4 0	microgram/L microgram/L microgram/L
Value-based EC aging comp. on/off (1/0) Time-based EC aging comp. on/off (1/0) Time-based EC aging comp. per month Time-based EC aging comp. maximum	0 1 0.2 3.0	% %
EC fatigue comp. max. sum EC fatigue comp. factor EC fatigue comp. minutes	15000 50 180	
mouth alc. mark limit mouth alc. lower limit mouth alc. slope mouth alc. zero limit mouth alc. max. neg. sum mouth alc. max. 2nd derivative	500 30 6 50 6 35	

ALCOTEST 9510 CERTIFICATION REPORT - WET ADJUST (PART I) Wall Township

Equipment

inst. Model No.: Firmware:

ALCOTEST 9510 Serial No.:

Config.:

ARMH-0017 8326737 3.10

WinCE:

8326738 2.9

Wet Adjust Record

Wet Adjust File No.: 210

Wet Adjust Date: Wet Adjust Time: 07/18/2023 13:52:36

Wet Adjust No.:

Concentration:

0.100 %

8326739 1.5

X-Cal 2000 Adjusting Unit: Solution Lot No.: 22240

Adj. Unit Ser. No.: Soln. Bottle No.:

ARND-0003 1116

Adj. Unit Exp.:

10/05/2023

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

Adjust Soln. Exp.: 07/05/2024

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.

TPRI A-6=743

Signed:

Date: 07/18/2023

ID: 3

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

Equipment

Inst. Model No.: Firmware:

ALCOTEST 9510 Serial No.: 8326739 1.5 Config.:

ARMH-0017

8326737 3.10 WinCE: 8326738 2.9

Dry Adjust Record

Dry Adjust File No.: 211

Dry Adjust Date: Dry Adjust Time: 07/18/2023 14:18:12

Dry Adjust No.:

Concentration: Dry Gas Lot No .: 0.100 %

302-402448281

Adjust Gas Exp.:

05/19/2025

Barom. Cert. Exp.:10/14/2023

Barom. Model No.: Pre-adjust Amb. Pressure:

Mensor CPG2300 Barom. Serial No.: 1009 hPa

41001275 Post-adjust Amb. Pressure:

1010 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.

TPRI. 1443

Signed:

Date: 07/18/2023

ID: 3

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.: 212 Lin. Date: 07/18/2023 Lin. No.: 4

 0.040% Dry Gas Lot No.:
 1486624
 Adjust. Gas Exp.:
 04/26/2024

 0.080% Dry Gas Lot No.:
 302-402477282
 Adjust. Gas Exp.:
 06/24/2025

 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

Data Summary				
Function	Result	Time	Barometric	Comment(s)
	<u>%BAC</u>	hh:mm:ss	Pres. [hPa]	or Status Code
Ambient Air Blank	0.000	14:47:22		*TEST PASSED*
Control .04 Test 1 EC	0.039	14:48:00	1011	*TEST PASSED*
Control .04 Test 1 IR	0.038	14:48:00	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:48:57		*TEST PASSED*
Control .04 Test 2 EC	0.039	14:49:13	1011	*TEST PASSED*
Control .04 Test 2 IR	0.039	14:49:13	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:50:26		*TEST PASSED*
Control .08 Test 3 EC	0.078	14:51:03	1011	*TEST PASSED*
Control .08 Test 3 IR	0.079	14:51:03	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:52:04		*TEST PASSED*
Control .08 Test 4 EC	0.079	14:52:20	1011	*TEST PASSED*
Control .08 Test 4 IR	0.079	14:52:20	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:53:42		*TEST PASSED*
Control .16 Test 5 EC	0.158	14:54:19	1011	*TEST PASSED*
Control .16 Test 5 IR	0.159	14:54:19	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:55:25		*TEST PASSED*
Control .16 Test 6 EC	0.160	14:55:41	1011	*TEST PASSED*
Control .16 Test 6 IR	0.160	14:55:41	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:57:05		*TEST PASSED*
Control .30 Test 7 EC	0.299	14:57:39	1011	*TEST PASSED*
Control .30 Test 7 IR	0.301	14:57:39	1011	*TEST PASSED*
Ambient Air Blank_	0.000	14:58:53		*TEST PASSED*
Control .30 Test 8 EC	0.303	14:59:05	1011	*TEST PASSED*
Control .30 Test 8 IR	0.303	14:59:05	1011	*TEST PASSED*
Ambient Air Blank	0.000	14:59:28		*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.

TPRJ. / + + > + 13

Signed: Date: 07/18/2023 ID: 3

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

Equipment

Inst. Model No.: Firmware:

ALCOTEST 9510 Serial No.: 8326739 1.5

ARMH-0017 8326737 3.10

WinCE:

8326738.2.9

Cyl1 Install File No.: 165

Config.: Cyl1 Install Date:

05/18/2023

Cyl1 Install No.:

Control Tests (0.100%)

Installation Inlet: Dry Gas Lot No .: #1 (Upper) 302-402422686 Post test active Cyl.: #2 (Lower) Dry Gas Lot Exp.:

04/21/2025

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	15:03:36	<u>.</u>	*TEST PASSED*
Control Test 1			1024	*TEST PASSED*
EC Result	0.100	15:04:23		*TEST PASSED*
IR Result	0.101	15:04:23		*TEST PASSED*
Ambient Air Blank	0.000	15:05:18		*TEST PASSED*
Control Test 2			1024	*TEST PASSED*
EC Result	0.100	15:05:43		*TEST PASSED*
IR Result	0.101	15:05:43		*TEST PASSED*
Ambient Air Blank	0.000	15:06:40		*TEST PASSED*
Control Test 3		. =	1024	*TEST PASSED*
ĒC Result	0.100	15:07:05	,,,,,,,	*TEST PASSED*
IR Result	0.101	15:07:05		*TEST PASSED*
Ambient Air Blank	0.000	15:07:19		*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 T / THE THE

Signed:

Date: 05/18/2023

ID: 3

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

Equipment

Inst. Model No.: Firmware:

ALCOTEST 9510 Serial No.:

8326739 1.5 Config.: ARMH-0017

8326737 3.10

WinCE:

8326738 2.9

Cyl2 Install File No.: 213

Cyl2 Install Date:

07/18/2023

Cyl2 Install No.:

Control Tests (0.100%)

Installation Inlet: Dry Gas Lot No.: #2 (Lower) 302-402663677 Post test active Cyl.: #1 (Upper) Dry Gas Lot Exp.:

02/10/2026

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank Control Test 1	0.000	15:04:05	1010	*TEST PASSED* *TEST PASSED*
EC Result	0.098	15:04:53		*TEST PASSED*
IR Result Ambient Air Blank	0.099 0.000	15:04:53 15:05:57		*TEST PASSED* *TEST PASSED*
Control Test 2	0.000	10.00107	1010	*TEST PASSED*
EC Result	0.098	15:06:24		*TEST PASSED*
IR Result Ambient Air Blank	0.099 0.000	15:06:24 15:07:29		*TEST PASSED* *TEST PASSED*
Control Test 3	5.545		1011	*TEST PASSED*
EC Result IR Result	0.099 0.099	15:07:55 15:07:55		*TEST PASSED* *TEST PASSED*
Ambient Air Blank	0.000	15:08:19		*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.

TRIT. A-1413

Signed:

Date: 07/18/2023

ID: 3

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1109388535

DRAEGER MEDICAL SYSTEMS INC.;

Date: April 26, 2022

METHOD OF ANALYSIS:

IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402422686

ETHANOL IN NITROGEN

Product Expiration: April 21, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	, ,
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	263.3	(0.101)
EFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
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 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: April 21, 2022

APPROVED BY:

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical lest 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: 1119668549

Date: April 18, 2023

DRAEGER MEDICAL SYSTEMS INC.;

METHOD OF ANALYSIS:

IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402663677

ETHANOL IN NITROGEN

Product Expiration: February 10, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	` ,
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	261.8	(0.100)
FERENCE STANDARD	CYLINDER	CONCENTRATION PPM
I.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.

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.

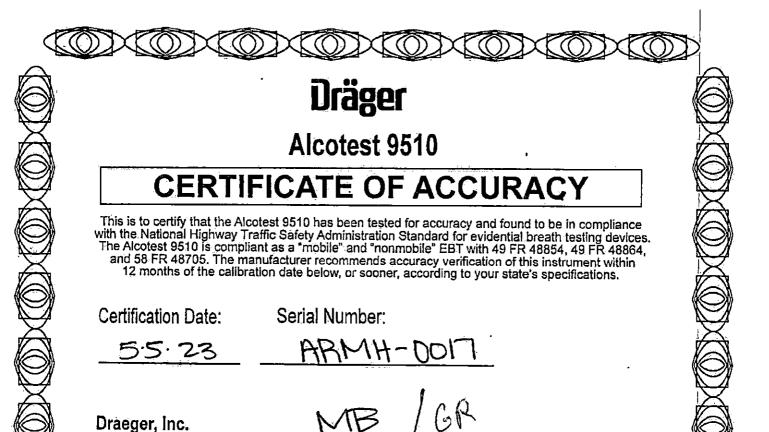
Manufactured Date: February 10, 2023

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

> CALGAZ, a division of Airgas USA LLC 821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251





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

MATTHEW J. PLATKIN Acting Attorney General

COLONEL PATRICK J. CALLAHAN Superintendent

PHILIP D. MURPHY Governor

SHEILA Y. OLIVER Lt. Governor

> CERTIFICATION OF ANALYSIS 0.100 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

CEPTANCE 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: 07/21/2022

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 22240

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1205 to 0.1219 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 July 05, 2024.

As OFS Director for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Michael Kennedy

OFS Director

NISP Office of Forensic Sciences

Sworn to and subscribed before me this 304 day of

KAREN E. STAHL NOTARY PUBLIC OF NEW JERSEY Commission # 50110022 My Commission Expires 8/13/2024

MOLVAN LANGE TENENCE TO SOLVEN STOLEN AND SOLVEN SO Commission at 80140/42

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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

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.

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/cm².

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).

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 1 of 5

Customer Number: 1-659111-000

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	O Cal Process O Uncertainty T (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Function Checks									
Bubble Check			P	Р	P				SIBS
Seal Check			P	Р	P				
Temperature Source: Ad	ccuracy Test								
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
Temperature Source: St	ability Test								
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-&05H1259-3-1	AF/AL
HP927312	Hart Scientific/Fluke	1575	Super Thermometer	18-May-21	30-Nov-22	5-&HP927312-5-1	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
70.61°F /21.45°C	46.30%	Dewk14	G	Temperature

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 2 of 5

Customer Number: 1-659111-000



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.

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 3 of 5

Customer Number: 1-659111-000

CALIBRATED 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

opic	Description
ccuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
s Found	Initial measurement results
s Left	Measurement results after adjustment and/or repair
lank Data Field	Test is not applicable for the UUT
al Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
alibration Date	Indicates the date that the calibration was completed
over Factor (k)	A measure of uncertainty that defines an interval about the measurement result
ue Date	Indicates the end of the calibration cycle as requested by the customer
ssue 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
ow / High Limits	Establishes UUT acceptable performance limits for the test measurement
easurement Uncertainty	The dispersion of the values attributed to a measured quantity
OA	Out of Acceptance (#)
от	Out of Tolerance (*)
etpoints	Measurement target values
raceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
aceability Number	Unique identifier(s) used to document traceability of calibration standards
JR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UT	Unit Under test

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 4 of 5

Customer Number: 1-659111-000

CALIBRATED

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

Calibrated By:

Electronically Signed By: Camden Alford

Electronically Signed By: Scott D. Caine

Camden Alford Calibration Technician

Oct 05, 2022 09:21:45 -04:00

Scott D. Caine Lab Manager

Reviewed By:

Oct 05, 2022 09:45:00 -04:00

Unit Barcode: 📗

0900B436552

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 5 of 5

Customer Number: 1-659111-000

CALIBRATED

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-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/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Certificate - Page 1 of 5

Date Received: October 03, 2022

Service Level: R9

Customer Number: 1-659111-000

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	Low Limit	High Limit	As Found / As Left	0 0 T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Pressure Measure: 552 to1172	mbara Range							-		
	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.

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 2 of 5

Customer Number: 1-659111-000



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

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DW11BA	Fluke/DH instruments	PG7601	Plston 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
7110°F /2172°C	52.20%	05H1297	В	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.

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 3 of 5

Customer Number: 1-659111-000



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 (#)
ООТ	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 4 of 5

Customer Number: 1-659111-000



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 Calibrated By:

Electronically Signed By:

Fritz Cardona

Calibration Technician

Jos

Electronically Signed By: Josh Soileau for

Fritz Cardona

Oct 14, 2022 09:53:35 -04:00 Scott D. Caine Lab Manager

Reviewed By:

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

Unit Barcode:



0900B429643

Date Received: October 03, 2022

Service Level: R9

Certificate - Page 5 of 5

Customer Number: 1-659111-000

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111663404

Date: July 05, 2022

NJSP DEPT OF LAW AND PUBLIC SAFETY

IR Breath Alcohol Analyzer

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

CALGAZ LOT#: 302-402448281

ETHANOL IN NITROGEN

METHOD OF ANALYSIS:

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
I.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 herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

Steven plutsche

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: ± 0.002 BrAC or ± 2% whichever is greater.	
LOT NO. COMP. 1 COMP. 2 COMP. 3 COMP. 4 COMP. 5 COMP. 6 Ex & QTY. C ₂ H ₅ OH N ₂	p Date
1486624(8) 104.2PPM	/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, 1 Test#VA-21-12587-L,F,T,P, Kit#IM1966, Test#VA-21-12587N, Kit#35, 104 105, 108, 109, 111 Test#VA-21-12587-I. No affecting environmental conditions during analysis.	13 .22.
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	

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

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

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111713599

Date: July 05, 2022

NJSP DEPT OF LAW AND PUBLIC SAFETY

METHOD OF ANALYSIS:

IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY:

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

CALGAZ LOT#: 302-402477282

ETHANOL IN NITROGEN

Product Expiration: June 24, 2025

COMPONENT	PPM	(BrAC)	
ETHANOL	208.4PPM	(0.080)	
NITROGEN	BAL		
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)	
ETHANOL	212.2	(0.081)	
REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM	
I.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 herin are manufactured and tested within the requirements of CFR 49 part 176.65 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 NITROGEN	416.8 BAL	(0.160)

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 NITROGEN	781.5 BAL	(0.300)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
•		
N M T TOROTOR GUNNONDOOM	NDEALA	0.00

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 Agraement (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.

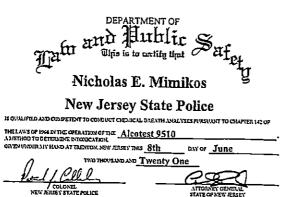
MANUFACTURED DATE: Jun. 21, 2021

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



Bolsoph Course	
Hamilton Tech	IXSTRUCTOR
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DEPARTMENT OF AND HILL Sufer
Nicholas E. Mimikos
Breath Test Coordinator/Instructor
SQUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES FURNANT TO CHAPTER 1/10 F MELLYS OF 1945 IN THE OFFICE HONOR THE Alcotest 9510
IVEN UNDER SIT HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June
TWO THOUSAND TWENTY One
NEW FERSEY STATE POLICE STATE OF NEW FERSEY

DATE	Refresher Course PLACE	INSTRUCTOR
		
3B (Rev. 01/18)		