



GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00304 DATE OF ANALYSIS May 16, 2005

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.016 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2499 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.33 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.26 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

 TED L. PAULEY
 LABORATORY DIRECTOR

May 16, 2005

 (date)



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

RICHARD J. CODEY
Acting Governor

PETER C. HARVEY
Attorney General

COLONEL JOSEPH R. FUENTES
Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Drager Safety, Inc. ANALYSIS DATE: 2/25/05

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 05A014

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1211 to 0.1214 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. 13:51-3.4, 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 January 31, 2007.

As Forensic Laboratory Director of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and 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.

Thomas A. Brettell
Thomas A. Brettell, Ph.D.
Forensic Laboratory Director
Division of State Police

Sworn to and subscribed before me this 10 day of March, 2005.

Linda L. DeSantis
Notary

Linda L. DeSantis
My Commission
Expires Aug. 17, 2009



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State of New Jersey

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JAMES E. MCGREEVEY
Governor

PETER C. HARVEY
Attorney General

COLONEL JOSEPH R. FUENTES
Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Drager Safety, Inc. ANALYSIS DATE: 6/15/04

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 04E006

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1212 to 0.1215 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. 13:51-3.4, 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 1, 2006.

As Forensic Laboratory Director of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and 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.

Handwritten signature of Thomas A. Brettell

Thomas A. Brettell, Ph.D.
Forensic Laboratory Director
Division of State Police

Sworn to and subscribed before me this 2nd day of July, 2004.

Handwritten signature of Notary
Notary

Commission
Expires Aug. 17, 2009





GUTH LABORATORIES, INC.

890 NORTH 67th STREET • HARRISBURG, PA 17111-4311 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00104

DATE OF ANALYSIS July 1, 2004

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.039 ml</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2534 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.25 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.23 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.52</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

July 1, 2004

(date)


GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

 CONTROL NUMBER 00403 DATE OF ANALYSIS March 5, 2004

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.034 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2539 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.09 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.17 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.52</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

 TED L. PAULEY
 LABORATORY DIRECTOR

March 5, 2004

(date)



GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-584-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00403 DATE OF ANALYSIS March 5, 2004

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.034 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2539 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.09 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.17 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.52</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley
TED L. PAULEY
LABORATORY DIRECTOR

March 5, 2004
(date)



GUTH LABORATORIES, INC.

500 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00303

DATE OF ANALYSIS November 20, 2003

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.016 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2507 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.36 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.27 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

November 20, 2003

(date)



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

PETER C. HARVEY
Attorney General

JAMES E. MCGREEVEY
Governor

COLONEL JOSEPH R. FUENTES
Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Drager Safety, Inc. ANALYSIS DATE: 11/25/03

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 03K001

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1216 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. 13:51-3.4, 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 November 10, 2005.

As Forensic Laboratory Director of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and at, the Forensic Science Laboratory Bureau 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 Forensic Science Laboratory Bureau, in accordance with their professional duties and responsibilities.

Thomas A. Brettell

Thomas A. Brettell, Ph.D.
Forensic Laboratory Director
Division of State Police

Sworn to and subscribed before me this 26 day of November, 2003.

Linda L. Desantis
Notary

LINDA L. DESANTIS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Aug. 17, 2004





GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00303

DATE OF ANALYSIS November 20, 2003

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.016 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2507 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.36 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.27 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

November 20, 2003

(date)



GUTH LABORATORIES, INC.

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CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00203

DATE OF ANALYSIS June 27, 2003

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mLs</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2529 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.17 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.20 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

TED L. PAULEY
LABORATORY DIRECTOR

June 27, 2003

(date)



GUTH LABORATORIES, INC.

390 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00203

DATE OF ANALYSIS June 27, 2003

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 ml</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2529 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.17 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.20 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

TED L. PAULEY
LABORATORY DIRECTOR

June 27, 2003

(date)



GUTH LABORATORIES, INC.

590 NORTH 87TH STREET • HARRISBURG, PA 17111-4611 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00103

DATE OF ANALYSIS April 8, 2003

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mls</u>	3.0 ml -0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2541 mg/ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.33 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.26 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

April 8, 2003

(date)



GUTH LABORATORIES, INC.

890 NORTH 87TH STREET · HARRISBURG, PA 17111-4511 · TELEPHONE: 717-564-5670

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00102

DATE OF ANALYSIS September 17, 2002

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.04 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2509 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.31 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.25 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.52</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

September 17, 2002

(date)



State of New Jersey

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON NJ 08628-0068

JAMES E. MCGREEVEY
Governor

PETER C. HARVEY
Acting Attorney General

CAPTAIN JOSEPH R. FUENTES
Acting Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Guth

ANALYSIS DATE: 3/7/03

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 02240

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1199 to 0.1214 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. 13:51-3.4, 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 December 9, 2003.

As Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and at, the Forensic Science Bureau 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 Forensic Science Bureau, in accordance with their professional duties and responsibilities.

Handwritten signature of Thomas A. Brettell

Thomas A. Brettell, Ph.D.
Chief Forensic Scientist
Division of State Police

Sworn to and subscribed before me this 12th day of March, 2003.

Handwritten signature of Linda L. Desantis
Notary

LINDA L. DESANTIS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Aug. 17, 2004





GUTH LABORATORIES, INC.

590 NORTH 87TH STREET · HARRISBURG, PA 17111-4511 · TELEPHONE: 717-564-8670

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00102

DATE OF ANALYSIS September 17, 2002

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.04 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2509 mg / ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.31 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.25 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.52</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

September 17, 2002

(date)



State of New Jersey

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON NJ 08628-0068

JAMES E. MCGREEVEY
Governor

DAVID SAMSON
Attorney General

JOSEPH J. SANTIAGO
Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Guth ANALYSIS DATE: 6/18/02

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 02080

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1215 to 0.1223 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. 13:51-3.4, 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 May 9, 2003.

As Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and at, the Forensic Science Laboratory Bureau 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 Forensic Science Laboratory Bureau, in accordance with their professional duties and responsibilities.

Thomas A. Brettell
Thomas A. Brettell, Ph.D.
Chief Forensic Scientist
Division of State Police

Sworn to and subscribed before me this 12th day of July, 2002.

Linda L. Desantis
Notary

LINDA L. DESANTIS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Aug. 17, 2004





State of New Jersey

DONALD T. DiFRANCESCO
Acting Governor

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON NJ 08628-0068

JOHN J. FARMER, JR.
Attorney General

COLONEL CARSON J. DUNBAR, JR.
Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Guth

ANALYSIS DATE: 8/16/01

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 01100

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1204 to 0.1216 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. 13:51-3.4, 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 11, 2002.

As Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and at, the Forensic Science Bureau 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 Forensic Science Bureau, in accordance with their professional duties and responsibilities.

Thomas A. Brettell, Ph.D.
Chief Forensic Scientist
Division of State Police

Sworn to and subscribed before me this 18 day of September, 2001.

Notary

PENELOPE A. MOORE

Notary Public of New Jersey
My Commission Expires July 6, 2003

Rev. 3/94





State of New Jersey

DONALD T. DiFRANCESCO
Acting Governor

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON NJ 08628-0068

JOHN J. FARMER, JR.
Attorney General

COLONEL CARSON J. DUNBAR, JR.
Superintendent

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Guth **ANALYSIS DATE:** 6/29/01

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 01070

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1233 to 0.1238 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. 13:51-3.4, 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 1, 2002.

As Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and at, the Forensic Science Bureau 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 Forensic Science Bureau, in accordance with their professional duties and responsibilities.

Thomas A. Brettell, Ph.D.
Chief Forensic Scientist
Division of State Police

Sworn to and subscribed before me this 11th day of July, 2001.

Notary

PENELOPE A. MOORE
Notary Public of New Jersey
My Commission Expires July 6, 2003

Rev. 3/94





GUTH LABORATORIES, INC.

590 NORTH 67TH STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00300

DATE OF ANALYSIS October 24, 2000

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2416 mg/ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.44 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.30 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

October 24, 2000

(date)



GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-584-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00300

DATE OF ANALYSIS October 24, 2000

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2416 mg/ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.44 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.30 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

October 24, 2000

(date)



GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00300

DATE OF ANALYSIS October 24, 2000

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2416 mg/ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.44 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.30 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

October 24, 2000

(date)



GUTH LABORATORIES, INC.

590 NORTH 67TH STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-554-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00300

DATE OF ANALYSIS October 24, 2000

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2416 mg/ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.44 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.30 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

October 24, 2000

(date)



State of New Jersey

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON NJ 08628-0068

JOHN J. FARMER, JR.
Attorney General

COLONEL CARSON J. DUNBAR, JR.
Superintendent
TELEPHONE: (609) 882-2000

CERTIFICATION OF ANALYSIS
0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.

MANUFACTURER: Guth ANALYSIS DATE: 9/20/00

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 00150

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1208 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. 13:51-3.4, 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 August 3, 2001.

As Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at my direction and under my supervision by personnel of, and at, the Forensic Science Bureau 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 Forensic Science Bureau, in accordance with their professional duties and responsibilities.

Thomas A. Brettell
Thomas A. Brettell, Ph.D.
Chief Forensic Scientist
Division of State Police

Sworn to and subscribed before me this 25th day of September, 2000.

Mary E. McLaughlin
Notary

MARY E. McLAUGHLIN
Notary Public of New Jersey
My Commission Expires Dec. 24, 2003

Rev. 3/94





GUTH LABORATORIES, INC.

590 NORTH 67TH STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00998

DATE OF ANALYSIS February 17, 2000

<u>TEST</u>	<u>TEST RESULTS</u>	<u>SPECIFICATION</u>
VOLUME	<u>3.02 mls</u>	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	<u>0.2421 mg/ml</u>	0.25 mg/ml +/- 5%
ACID CONCENTRATION	<u>51.49 %</u>	50% v/v (45.0% to 55.0%)
NORMALITY	<u>19.32 N</u>	18.8N - 19.6N
SPECIFIC GRAVITY	<u>1.53</u>	1.53 +/- 0.01 @ 20°C
SILVER	<u>YES</u>	PRESENT
SULFATE	<u>YES</u>	PRESENT
DICHROMATE	<u>YES</u>	PRESENT

Ted L. Pauley

TED L. PAULEY
LABORATORY DIRECTOR

February 17, 2000

(date)