

CHRISTINE TODD WHITMAN

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

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOULUTION: 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: 12/14/99

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 99310

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 0.1229 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, 2000.

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 Rid day of Leco, 1999.

Myra Ellexander)

Rev. 3/94

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







RISTINE TODD WHITMAN

GOVERNOR

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

PETER VERNIERO
Attorney General

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

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 99081

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of <u>0.1207</u> to <u>0.1227</u> 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 <u>April 21, 2000</u>.

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 2rd day of Thre, 1999.

Notary

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

2. Mc Laighte





CHRISTINE TODD WHITMAN Governor

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

PETER VERNIERO Attorney General

COLONEL CARL A. WILLIAMS Superintendent TELEPHONE: (609) 882-2000

ADDRESS REPLY TO:

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: 7/27/98 BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 98180

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1192 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 June 5, 1999.

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 19th day of August, 199 8.

MARY ELIZABETH McLAUGHLIN NOTARY PUBLIC OF NEW JERSEY

My Commission Expires Dec. 20, 1998





CHRISTINE TODD WHITMAN Governor

DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE Post Offici Box 7008 Wrst Teinton NJ 08628-0068

PETER VERNIERO Attorney General

COLONEL CARL A. WILLIAMS Superintendent TELEPHONE: (609) 882-2000

Address Reply To:

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcoho concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.
MANUFACTURER: Guth ANALYSIS DATE: 1/30/98
BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 98090
Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of <u>0.1199</u> to <u>0.1230</u> grams per 100 milliliters of solution.
This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose o 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 alcoho simulator solution is <u>January 12, 1999</u> .
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 personne 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.
Charles G. Tindall, Ph.D.
Chief Forensic Scientist
Division of State Police
Sworn to and subscribed before me this \(\frac{\frac}
Notary SAM MULLAY rev. 3/94
rev. 3/94



NOTARY PUBLIC OF NEW JEE My Commission Figures March 8 "





CHRISTINE TODD WHITMAN

Governor

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

PETER VERNIERO Attorney General

COLONEL CARL A. WILLIAMS

Superintendent
Telephone: (609) 882-2000

ADDRESS REPLY TO:

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.
MANUFACTURER: Guth ANALYSIS DATE: 3/25/97
BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER:97060
Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of <u>0.1214</u> to <u>0.1228</u> 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 <u>February 13, 1998</u> .
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.
Charles G. Tindall, Ph.D.
Charles G. Thidau, Th.D.

Chief Forensic Scientist Division of State Police

mull

Sworn to and subscribed before me this 1st day of April, 199 .







CHRISTINE TODD WHITMAN
Governor

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

PETER VERNIERO
Attorney General

COLONEL CARL A. WILLIAMS

Superintendent

TELEPHONE: (609) 882 2000

ADDRESS REPLY TO:

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: 12/17/96

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 96250

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.1209 to 0.1225 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 October 9, 1997

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.

Charles G. Tindall, Ph.D. Chief Forensic Scientist Division of State Police

Sworn to and subscribed before me this 2014 day of December, 1996.

Notary





CHRISTINE TODD WHITMAN

GOVERNOR

DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE POST OFFICE BOX 7068 WEST TRENTON NJ 0862S-006S

DEBORAH T. PORITZ

Attorney General

COLONEL CARL A. WILLIAMS

Superintendent
Telephone: (609) 882-2000

ADDRESS REPLY TO:

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH A concentration within, but not exceeding, the range of 0.1	•
MANUFACTURER: Guth ANAL	YSIS DATE:
BREATH ALCOHOL SIMULATOR SOLUTION LOT	NUMBER: 96080
Representative samples of the above-referenced Lot Numbave an ethyl alcohol concentration range of <u>0.1228</u> to	• • • • • • •
This lot of breath alcohol simulator solution may be uticonducting periodic tests, pursuant to N.J.A.C. 13:51-3.4, utilized by law enforcement agencies in this State. The masimulator solution is <u>February 1</u> , 1997	of approved breath test instruments (N.J.A.C. 13:51-3.5)
As Chief Forensic Scientist of the Division of State Political documented in this Certificate of Analysis were performed of, and at, the Forensic Science Bureau of the Division instruments and equipment. All procedures utilized are personnel within the Forensic Science Bureau, in according	d at my direction and under my supervision by personne of State Police on properly functioning and calibrated accurate, objective, and performed on a routine basis by
	Charles G. Tindall, Ph.D.
₹	Chief Forensic Scientist Division of State Police
Sworn to and subscribed before me this $\frac{3/57}{4}$ day of $\frac{1}{2}$	15x, 199 <u>6</u> .
Notary SAM MULLAY NOTARY PUBLIC OF THE MAN My Commission I	rev. 3/9
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CHRISTINE TODD WHITMAN

Governor

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
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WEST TRENTON NJ 08628-0068

DEBORAH T. PORITZ

Attorney General

COLONEL CARL A. WILLIAMS

Superintendent

Telephone: (609) 882-2000

ADDRESS REPLY TO:

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

					ams per 100 milliliters of solution.
MANUI	FACTURER:	Guth	ANALY	SIS DATE: _	5/30/96
BREAT	TH ALCOHO	L SIMULATO	OR SOLUTION LOT N	UMBER:	96080
					ed by Gas Chromatography and found as per 100 milliliters of solution.
conduct utilized	ting periodic t by law enfore	tests, pursuant	to N.J.A.C. 13:51-3.4, os in this State. The ma	of approved b	wn traceable standard for the purpose reath test instruments (N.J.A.C. 13:51-3 xpiration date for this lot of breath alcohom.
docume of, and instrum	ented in this (at, the Fore nents and equ	Certificate of A nsic Science B ipment. All p	nalysis were performed sureau of the Division rocedures utilized are a	at my direction of State Police ccurate, object	ertify and attest that the tests and resultion and under my supervision by personner on properly functioning and calibrate ctive, and performed on a routine basis be professional duties and responsibilities
					VATINALL Tindall, Ph.D. nsic Scientist
				Division of	State Police
Sworn	to and subsci	ribed before m	e this <u>3/s</u> t day of^	199_ مركا	<u>6</u> .

IPPS

NOTARY PUBLIC OF NEW JETSEY
My Commission Expires

Notary

FEV. 3/34



CHRISTINE TODD WHITMAN

Governor

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

DEBORAH T. PORITZ

Attorney General

COLONEL CARL A. WILLIAMS

Superintendent

Telephone: (609) 882-2000

ADDRESS REPLY TO:

CERTIFICATION OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR DEFATU ALCOHOL SIMIL ATOD SOLUTION. Februa alcohol

concentration within, but not exceeding, the range of 0.117 to 0.125 grams per 100 milliliters of solution.
MANUFACTURER: Guth ANALYSIS DATE: 2/15/96
BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER:95402
Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of <u>0.1227</u> to <u>0.1233</u> 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 October 1, 1996
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 personner 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.
Charles It Tendall
Charles G. Tindall, Ph.D.
Chief Forensic Scientist
Division of State Police

Sworn to and subscribed before me this 6 day of February, 1996.

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rev. 3/94

FLORA L. SUYDAM NOTAHY PURLIC OF NEW JERSEY My Commission Explications (C. 1639)





State of New Jersey DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE RIVER ROAD

POST OFFICE BOX 7068 WEST TRENTON, NJ 08628-0068 TELEPHONE: (809) 882-2000

ADDRESS REPLY TO:

DEBORAH T. PORITZ ATTORNEY GENERAL

COLONEL CARL A. WILLIAMS 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: BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 95280 Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of _0.1232_ to 0.1243 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, 1996 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 All procedures utilized are accurate, calibrated instruments and equipment. objective, and performed on a routine basis by personnel within the Forensic Science Bureau, in accordance with their professional duties and responsibilities. Charles Chief Forensic Scientist Division of State Police Sworn to and subscribed before me this rev. 3/94

PPS

NOTARY PUBLIC OF NEW JERSEY My Commission Expires March 8, 1998



State of New Jersey DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

RIVER ROAD

POST OFFICE BOX 7068 WEST TRENTON, NJ 08628-0068 TELEPHONE: (609) 882-2000

DEBORAH T. PORITZ ATTORNEY GENERAL **ADDRESS REPLY TO:**

COLONEL CARL A. WILLIAMS 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: __ 1/25/95 BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 94381 Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.120 to 0.122 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 October 1, 1995 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. Charles G. Tindall, Ph.D. Chief Forensic Scientist Division of State Police Sworn to and subscribed before me this 315t day of Tan., 199 5 GEORGE M. HICKMAN rev. 3/94 NOTARY PUBLIC OF NEW JERSEY

APS

My Commission Expires Oct. 9, 1997

Air • Fuel • Water • Food • Wastes CERTIFICATE OF ANALYSIS

NATIONAL DRAEGER, INC. 101 Technology Drive Pittsburgh, PA 15275

ttention: Mr. Tom Couchenour

Lab I.D. No.: 84~433
Date Received: 08/26/94
Account No.: BN017
Invoice No.: 03208
September 8, 1994

JECT: P.O. NO. 3538 - LOT NO. 9310701502 - MSR NO. 002059

BREATH TEST KITS FOR ANALYSIS

IESIS	SPEC	RESULTS	TECH/DT
ilver Nitrate	(0.250 +/- 0.025 mg/ml)	0.230 mg/ml	JR 9/08
'olume	(3.0 + 0.1/-0.0 ml)	3.04 ml	DD 9/02
otassium Dichrome	ate (0.250 +/- 0.013 mgs/ml)	0.251 mg/ml	EV 9/02
pecific Gravity	(1.53 +/- 0.01 @ 23 Deg. C)	1.52 g/ml	00 9/02
ulfuric Acid Normality	(19.1 to 19.9)	19.25 N	DD 9/02
iphenylcarbizide Dichromate Test		Present	DD 9/02
SP XIX Test for Sulfate		Present	DD 9/02

Laboratory Director

):tf

The data and other information contained on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon the condition that it is not reproduced wholly or in part for advertising or other purposes without written approval from the laboratory.

USDA-EPA-NIOSH testing • Food Sanitation Consulting • Chemical and Microbiological Analyses and Research



Schiller Division 449 Rochester Road Plusburgh, Pennsylvania 15237-1733

• Fuel • Water • Food Wastes

GERTIFICATE OF ANALYSIS



NATIONAL DRAEGER 101 Technology Drive Pittsburgh PA 15275

ab I.D. #: 34-213 Date Rec'd.: 03-16-94

AfAccount #: BN017 ..Invoice #: 00810 March 25, 1994

CODE 39HS; 94-031080

- 9310701501

	TESTS SPEC	RESULTS	TEC	H/DT
	Silver Nitrate (0.250 +/- 0.025 mg/ml)	0.252 mg/ml	JR	3/25
	Volume (3.0 + Q,1/-0.0 ml)	3.02 ml	.00	3/24
	Potassium Dichromate (0.250 +/- 0.013 mgs/ml)	0.255 mg/ml	DA	3/25
P	Specific Gravity (1.53 +/- 0.01 8 23 Deg. C)	1.523 g/ml	00	3/25
	Sulfuric Acid Normality (19.1 to 19.9)	19.4 N	00	3/24
	Diphenylcarbizide Dichromate Test	Positive	00	3/24
	USP XIX Test for Sulfate	Positive	DD	3/24

DJ0/pt



State of New Jersey DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

RIVER ROAD

DEBORAH T. PORITZ ATTORNEY GENERAL POST OFFICE BOX 7068 WEST TRENTON, NJ 08628-0068 TELEPHONE: (609) 882-2000 FAX: (609) 882-6920

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: ANALYSIS DATE: March 9, 1994 BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of ... to .123 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 1, 1994 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. Charles G. Tindall, Ph.D. Chief Forensic Scientist Division of State Police

Notary

NOTARY PUBLIC OF NEW JERSEY
My Commission Expires March 3, 1923

rev. 3/94

Sworn to and subscribed before me this 14th day of March

REV 2

MATERIAL SAFETY DATA SHEET:

Breathalyzer Test Kit Solution

SECTION I

Supplier: Address: National Draeger, Inc. 101 Technology Drive

Pittsburgh, PA 15275

Emergency Telephone Number: Telephone Number for Information:

Fax Number:

(412) 787-8383 (412) 787-8389 (412) 787-2207

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT Sulfuric Acid Potassium Dichromate

Silver Nitrate

CONCENTRATION 61.5% 0.016% 0.016%

CAS NO. 7664-93-9 7778-50-9 7761-88-8 OSHA PEL 1.0 mg/m² 0.1 mg/m³ 0.01 mg/m³

ACGIH TLV 1.0 mg/m² 0.05 mg/m 0.01 mg/m³

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS
BOILING POINT: 146°C

MELTING POINT:

SPECIFIC GRAVITY (H2S = 1): EVAPORATION RATE (Butyl Acetate = 1):

SOLUBILITY:

VAPOR PRESSURE:

VAPOR DENSITY:

Complete 14mm Hg @20°C 0.7 (water)

1.53 @20°C

-35°C

>1

APPEARANCE AND ODOR: Thin, clear, yellow liquid with no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

Non combustible

EXTINGUISHING MEDIA:

Use dry chemical or carbon dioxide. For large fires, use water spray, fog, or regular foam. (1990 Emergency Response Guidebook, DOT P 5800.5).

SPECIAL FIRE FIGHTING PROCEDURES:

Do not get water inside container. Do not get solid stream of water on spilled material. Move container from fire area if you can do it without risk. Apply cooling water to side of containers that are exposed to flames until well after fire is out. Firefighters should be equipped with self-contained breathing apparatus with full facepiece operated in pressure demand or other positive mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Oxidizer: Oxidizers decompose, especially when heated, to yield oxygen or other gases which will increase the burning rate of combustible matter. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion, or explosion. Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.

SECTION V - REACTIVITY DATA STABILITY:

Stable

INCOMPATIBILITIES:

Combustible materials, strong alkalies, reactive metals, strong oxidizers, and excessive heat.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products may include toxic and hazardous oxides of sulfur, silver, and nitrogen.

HAZARDOUS POLYMERIZATION:

Will not occur

SECTION VI - HEALTH HAZARD DATA
TOXICITY: Sulfuric Acid:

Sulfuric Acid:

Severe irritation

Carcinogen Status:

Local effects:

Acute Toxicity Level: Target Effects:

Corrosive - Inhalation, skin, eyes, and ingestion. Highly toxic by inhalation; moderately toxic by ingestion

No data available

Potassium Dichromate:

Carcinogen Status:

Local Effects:

Known human carcinogen (NTP) Corrosive - Inhalation, skin, eyes, and ingestion.

Acute Toxicity Level: Target Effects:

Toxic by ingestion. Sensitizer - skin

Silver Nitrate:

Carcinogen Status:

Local Effects:

Acute Toxicity Level: Target Effects:

None

Corrosive - Inhalation, skin, eyes, and ingestion.

Highly toxic by ingestion.

Poisoning may discolor the skin and eyes (Argyria).

CARCINOGEN STATUS: NTP:

YE\$

IARC: YES OSHA: NO



State of New Jersey DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

RIVER ROAD

POST OFFICE BOX 7068 WEST TRENTON, NJ 08628-0068

TELEPHONE: (609) 882-2000 FAX: (609) 882-6920

COLONEL CARL A. WILLIAMS 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 Laboratories ANALYSIS DATE: 10/05/94 BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 94291 Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of _0.122_ to 0.125 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 1, 1995 _____ 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. Chief Forensic Scientist Division of State Police Sworn to and subscribed before me this 1 th day of Chop 1 rev. 3/94

> MARY ELIZABETH McLAUGHLIN NOTARY PUBLIC OF NEW JERSEY My Commission Expires Dec. 20, 1998



DEBORAH T. PORITZ

ATTORNEY GENERAL



06-30-1995 02:35PM

Microbac Laboratories, Inc.
Schiller Division 449 Rochester Road Pittsburgh. Pennsylvania 15237-1733

TO

412/369-4830 - Fax: 412/369-4832

Wastes Food Fuel Water Air CERTIFICATE OF ANALYSIS



NATIONAL DRAEGER, INC. 101 Technology Drive 15275 Pittsburgh, PA

Mr. Tom Couchenour Attention:

Lab I.D. No. : 84-433 08/26/94 Date Received: **BN017** Account No. 03208 Invoice No.

September 8, 1994

P.O. NO. 3538 - LOT NO. 9310701502 - MSR NO. 002059

BREATH TEST KITS FOR ANALYSIS

7 <u>1.91.5</u>	SPEC	RESULIS	TEC	TQVH
SOME Nitrate	(0.250 +/- 0.025 mg/ml)	0.230 mg/ml	JR	9/08
Ve June	(3.0 + 0.1/-0.0 ml)	3.04 ml	OD	9/02
Potassium Dichroma	te (0.250 +/- 0.013 mgs/ml)	0.251 mg/ml	EV	9/02
specific Gravity	(1.53 +/- 0.01 @ 23 Deg. C)	1.52 g/ml	DD	9/02
Sulfuric Acid Normality	(19.1 to 19.9)	19.25 N	DD	9/02
Diphenylcarbizide Dichromate Test		Present	DD	9/02
VIX RECEIVE SULFACE		Present	DD	9/02



DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

POST OFFICE BOX 7068 WEST TRENTON, NEW JERSEY 08628-0068 (609) 882-2000

ROBERT J. DEL TUFO Attorney General COLONEL JUSTIN J. DINTINO Superintendent

CERTIFICATE 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/SUPPLIER Guth Laboratories. Inc. DATE OF ANALYSIS: _____September 24, 1993 BREATH ALCOHOL SIMULATOR SOLUTION LOT NO. 93320 Representative samples of the above referenced Lot. No. were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.121 to 0.124 grams per 100 milliliters of solution. This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purposes of conducting periodic tests, pursuant to N.J.A.C. 13:51-3.4, of approved breath test instruments in this State. As Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented on this Certificate of Analysis were performed under and at my direction and 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 within the Forensic Science Bureau. DATE: 9/24/93 Charles G. Tindall, Ph. D. Chief Forensic Scientist Division of State Police Sworn to and subscribed before me this 24th day of September, 1993 GEORGE M. HICKMAN NOTARY PUBLIC OF NEW JERSEY

My Commission Expires Oct. 9, 1997



DEPARTMENT OF LAW AND PUBLIC SAFETY

SPECIAL AND TECHNICAL SERVICES SECTION
POST OFFICE BOX 7068
WEST TRENTON NEW JERSEY 08628-0068

WEST TRENTON, NEW JERSEY 08628-0068 (609) 882-2000

ROBERT I DEL TUFO

Attorney General

Notary

NOTARY PUBLIC OF NEW JERSEY My Commission Expires March 8, 1998 COLONEL JUSTIN J. DINTINO Superintendent

CERTIFICATE 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/SUPPLIER <u>Guth Laboratories, Inc.</u>
DATE OF ANALYSIS: March 11, 1993
BREATH ALCOHOL SIMULATOR SOLUTION LOT NO. 93060
Representative samples of the above referenced Lot. No. were tested by Gas chromatography and found to have an ethyl alcohol concentration range of <u>0.123</u> grams per 100 milliliters of solution.
This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purposes of conducting periodic tests, pursuant to I.J.A.C. 13:51-3.4, of approved breath test instruments in this State.
as Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented on this Certificate of Analysis were performed under and at my direction and 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 within the Forensic Science Bureau.
Charles G. Tindall Charles G. Tindall, Ph. D. Chief Forensic Scientist Division of State Police

New Jersey Is An Equal Opportunity Employer

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



DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

SPECIAL AND TECHNICAL SERVICES SECTION POST OFFICE BOX 7068 WEST TRENTON, NEW JERSEY 08628-0068 (609) 882-2000

COLONEL JUSTIN J. DINTINO Superintendent

ROBERT J. DEL TUFO Attorney General

CERTIFICATE OF ANALYSIS
O.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/SUPPLIER Guth Laboratories Inc.
DATE OF ANALYSIS: August 20, 1992
BREATH ALCOHOL SIMULATOR SOLUTION LOT NO. 92132
Representative samples of the above referenced Lot. No. were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.119 to 0.121 grams per 100 milliliters of solution.
This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purposes of conducting periodic tests, pursuant to N.J.A.C. 13:51-3.4, of approved breath test instruments in this State.
As Assistant Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented on this Certificate of Analysis were performed under and at my direction and 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 within the Forensic Science Bureau.
DATE: August 24,1992 Charles G. Tindall, Ph. D. Asst. Chief Forensic Scientist Division of State Police
Sworn to and subscribed before me this 147H day of august, 1992
Henry B. Sundana
HENRY B. SWORDSMA NOTARY PUBLIC OF NEW JERSEY

New Jersey Is An Equal Opportunity Employer

My Commission Expires Dec. 8, 1993

GUTH LABORATORIES, INC.

590 NORTH 67TH STREET · HARRISBURG, PA 17111 · TELEPHONE 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

CONTROL NUMBER 00892	DATE OF A	ANALYSIS July 1, 1992
TEST	TEST RESULTS	SPECIFICATION
	•	
VOLUME	3.01 mls	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	0.2526 mg/ml	0.25 mg/ml +/- 5%
ACID CONCENTRATION	51.92%	50% v/v (45.0% to 55.0%)
NORMALITY	19.48 N	18.8N - 19.6N
SPECIFIC GRAVITY	1.53	1.53 +/- 0.01 @ 20°C
SILVER	YES	PRESENT
SULFATE	YES	PRESENT
DICHROMATE	YES	PRESENT

RICHARD U. GUTH LABORATORY DIRECTOR

July 1, 1992

(date)

GUTH LABORATORIES, INC.

590 NORTH 67TH STREET . HARRISBURG. PA 17111 . TELEPHONE 717-564-5470

CERTIFICATE OF ANALYSIS - BREATH ALCOHOL REAGENT AMPOULE

TEST	TEST RESULTS	SPECIFICATION
VOLUME	3.01 mls	3.0 ml +0.1 ml -0.0 ml
POTASSIUM DICHROMATE	0.2526 mg/ml	0.25 mg/ml +/~ 5%
ACID CONCENTRATION	51.92%	50% v/v (45.0% to 55.0%)
NORMALITY	19.48 N	18.8N - 19.6N
SPECIFIC GRAVITY	1.53	1.53 +/- 0.01 @ 20°C
SILVER	YES	PRESENT
SULFATE	YES	PRESENT
DICHROMATE	YES	PRESENT

CONTROL NUMBER 00892 DATE OF ANALYSIS July 1, 1992

RICHARD U. GUTH

July 1, 1992

(date)



DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

SPECIAL AND TECHNICAL SERVICES SECTION POST OFFICE BOX 7068 WEST TRENTON, NEW JERSEY 08628-0068

ROBERT J. DEL TUFO Attorney General

(609) 882-2000

COLONE. JUSTIN J. DINTINO Superintendent

CERTIFICATE OF ANALYSIS 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/SUPPLIERGuth Laboratories
DATE OF ANALYSIS: February 11, 1992
BREATH ALCOHOL SIMULATOR SOLUTION LOT NO. 91232
Representative samples of the above referenced Lot. No. were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.120 to 0.121 grams per 100 milliliters of solution.
This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purposes of conducting periodic tests, pursuant to N.J.A.C. 13:51-3.4, of approved breath test instruments in this State.
As Assistant Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented on this Certificate of Analysis were performed under and at my direction and 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 within the Forensic Science Bureau.
DATE: February 11, 1992 Mailes of Tindell
Charles G. Tindall, Ph. D.
Asst. Chief Forensic Scientist Division of State Police
Sworn to and subscribed before me this 17H day of February, 1993 Herr B. Sundame
Notary HENRY B. SWORDEN ARENEY
HENRY B. SWOLLER SERVEY NOTARY PUBLIC OF NEW JERSEY IS An Equal Opportunity Employer My Commission Explored Is An Equal Opportunity Employer
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DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

SPECIAL AND TECHNICAL SERVICES SECTION POST OFFICE BOX 7068 WEST TRENTON, NEW JERSEY 08628-0068 (609) 882-2000

COLONE. JUSTIN J. DINTINO Superintendent

ROBERT J. DEL TUFO Attorney General

CERTIFICATE OF ANALYSIS O. 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. Guth Laboratories MANUFACTURER/SUPPLIER February 11, 1992 DATE OF ANALYSIS: BREATH ALCOHOL SIMULATOR SOLUTION LOT NO. 91232 Representative samples of the above referenced Lot. No. were tested by Gas Chromatography and found to have an ethyl alcohol concentration range of 0.120 to 0.121 grams per 100 milliliters of solution. This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purposes of conducting periodic tests, pursuant to N.J.A.C. 13:51-3.4, of approved breath test instruments in this State. As Assistant Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented on this Certificate of Analysis were performed under and at my direction and 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 within the Forensic Science Bureau. DATE: February 11, 1992 Charles G. Tindall, Ph. D. Asst. Chief Forensic Scientist Division of State Police Sworn to and subscribed before me this 117H day of Falrung Notary HOTARY PUBLIC OF MEY! JERLIFY

My Commission ExiNew Jersey Is An Equal Opportunity Employer



DEPARTMENT OF LAW AND PUBLIC SAFETY DIVISION OF STATE POLICE

SPECIAL AND TECHNICAL SERVICES SECTION POST OFFICE BOX 7068 WEST TRENTON, NEW JERSEY 08628-0068 (609) 882-2000

COLONEL JUSTIN J. DINTINO Superintendent

ROBERT J. DEL TUFO Attorney General

CERTIFICATE OF ANALYSIS 0.10 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR & Ethyl alcohol concentration within but not exceeding the range of 0.	OLETI 17 to 1	중 0.425 ^즉		
grams per 100 milliliters of solution.		 ص		
MANUFACTURER/SUPPLIER _Guth Laboratories, Inc.	 _	<u>w</u> :		
DATE OF ANALYSIS: October 24, 1991	31.	3		
BREATH ALCOHOL SIMULATOR SOLUTION LOT NO. 91171		<u> </u>		
Representative samples of the above referenced Lot. No. were test chromatography and found to have an ethyl alcohol concentrate of 0.119 to 0.122 grams per 100 milliliters of solution.				
This lot of breath alcohol simulator solution may be utilized traceable standard for the purposes of conducting periodic tests, N.J.A.C. 13:51-3.4, of approved breath test instruments in this Sta	pursua			
As Assistant Chief Forensic Scientist of the Division of State Police, I hereby certify and attest that the tests and results documented on this Certificate of Analysis were performed under and at my direction and 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 within the Forensic Science Bureau.				
DATE: 11/1/91 Charles G. Tindall, Ph. D. Asst. Chief Forensic Scientist Division of State Police				
Division of State Police				
Sworn to and subscribed before me this 15T day of November	<u> </u>	199_		
Notary Struct O. NEW JERSEY NOTARY PUBLIC OF NEW JERSEY Au Commission Expires Pioc. 8, 1993 My Commission Expires Pioc. 8, 1993		·		

THERRON TESTING LABORATORIES, INC.

5405 E. SCHAAF ROAD • CLEVELAND, OHIO 44131 (216) 524-1450 • FAX: (216) 524-1459 "Testing and Analysis Since 1911" CHARLOTTE DIVISION

1200-E Westinghouse Blvd. P.O. Box 7564 Charlotte, North Carolina 28241 (704) 588-1131 • FAX: (704) 588-5412

To: NATIONAL DRAEGER, INC.

P.O. BOX 120

PITTSBURGH, PA 15230-0123

Page 1 of

1

91031360

Herron File No. Purchase Order No.

91-03297

4/4/91

Shipper No.

Date Reported

ATTENTION:

PATTY WILSON

6

SAMPLE DESCRIPTION

One (1) Lot (Consisting of 25 Pcs)

Breathalyzer Ampoules, Lot# 9001001ND,

RSR# 396-91

ANALYSIS

	11011010	
	SPEC	RESULTS
Specific Gravity	(1.53 ÷/- 0.01 @ 23 Deg. C)	1.54
Volume	(3.0 ÷ 0.1/-0.0 ml)	3.05 mls/ampoule
Sulfuric Acid Normality	(19.1 to 19 9)	19.7
Potassium Dichromate	(0.250 +/- 0.013 mgs/ml)	0.240 mg/ml
Silver Nitrate	(.250 +/- 0.025 mg/ml)	0.256 mg/ml
Diphenylcarbizied Dichromate Test		Present
USP XIX Test For Sulfate		Present

The above tests were performed by Tom Routt.

Respectfully submitted,

HERRON TESTING LABORATORIES, INC.

Gary Upperman

nager, Analytical Services

GU:kl

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DEPARTMENT OF LAW & PUBLIC SAFETY DIVISION OF STATE POLICE

SPECIAL & TECHNICAL SERVICES FORENSIC SCIENCE BUREAU

CERTIFICATE 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/SUPPLIER:

DATE OF ANALYSIS: March 22, 1991

Guth Laboratories, Inc.

BREATH ALCOHOL SIMULATOR SOLUT	TION LOT NO. 91030
Representative samples of the above referenced Le to have an ethyl alcohol concentration range of of solution.	ot No. were tested by Gas Chromatography and found 0.121 to 0.122 grams per 100 milliliters
This lot of breath alcohol simulator solution me purposes of conducting periodic tests, pursuant to in this State.	nay be utilized as a known traceable standard for the N.J.A.C. 13:51-3.4, of approved breath test instruments
and results documented on this Certificate of An supervision by personnel of and at the Forensic Sc	State Police, I hereby certify and attest that the tests halysis were performed under and at my direction and tience Bureau of the Division of State Police on properly pment. All procedures utilized are accurate, objective, orensic Science Bureau.
DATE: 4-1-9/	Richard Saferstein, Phd., Chief Forensic Scientist Division of State Police
Swom to and subscribed before me this/	day of April , 199/
NOTARY PUBLIC OF NEW JURISHY My Commission Exchas Alvert 8 1001	



DEPARTMENT OF LAW & PUBLIC SAFETY DIVISION OF STATE POLICE

SPECIAL & TECHNICAL SERVICES FORENSIC SCIENCE BUREAU

CERTIFICATE 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/SUPPLIER:	Guth Laboratories, Inc.
DATE OF ANALYSIS: October 12	, 1990
BREATH ALCOHOL SIMULATOR	SOLUTION LOT NO. 90120
Representative samples of the above refer to have an ethyl alcohol concentration rof solution.	enced Lot No. were tested by Gas Chromatography and found range of 0.118 to 0.120 grams per 100 milliliters
	ution may be utilized as a known traceable standard for the suant to N.J.A.C. 13:51-3.4, of approved breath test instruments
and results documented on this Certifica supervision by personnel of and at the For	sion of State Police, I hereby certify and attest that the tests te of Analysis were performed under and at my direction and rensic Science Bureau of the Division of State Police on properly and equipment. All procedures utilized are accurate, objective, in the Forensic Science Bureau.
DATE: October 15, 1990	Mchard Saferstein, Phd. Thief Forensic Scientist Division of State Police
Sworn to and subscribed before me this	154h day of October 1990
Mary Place Inc	charyte
MARY ELIZABETH McLAUGHLIN NOTARY PUBLIC OF NEW JERSEY	·

My Commission Expires October 25, 1993



P. O. BOX 4187, 2323 SYCAMORE DR., KNOXVILLE, TENNESSEE 37921 / 615 546-1335

CERTIFICATE OF ANALYSIS

Mr. Bernard J. Kaminski National Draeger Post Office Box 120 Pittsburgh, Pennsylvania November 24, 1986

Received: November

PO#: 86-10071

Dear Mr. Kaminski:

Analysis of your compound gave the following results:

Yours at # 126090011/

(25 ampuls) (Our # R-2551)

Assay: 266 mg/liter Ag NO:

Manufacturers Tolerance

Silver: Present

Present

Identification: Present

Present

USP XIX Test for Sulfate

Diphenylcarbazied dichromate test

Specific Gravity:

1.530

@ 23°C.

 1.53 ± 0.01 @ 23°C.

Normality 19.35 N

· Potassium dichromate:

0.253 mg/ml

Potassium dichromate 0.25 mg/ml \pm 5%

වි ම්/elgme per ampul:

3.01 ml

Volume per ampul 3.0 + 0.1 ml

క్రైక్ట్ (average 4 ampuls)

The above report indicated that this batch of ampuls complies within established tolerances 🗲 for Breathalyzer* solution as specified by the manufacturer, for use in all Breathalyzers ?."

Gail R. Hutchens, Exec. Vice-President

P/N 4594875



MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL IDENTIFICATION

CHEMICAL NAME: Diluted Sulfuric acid containing Potassium dichromate

CAS-NUMBER: N/A

MOLECULAR WT: M/A

SUPPLIER: NATIONAL DRAEGER, INC.

CHEMICAL FORMULA: H2-S04/K2-CR2-07

ADDRESS: 101 Technology Drive

Pittsburgh, PA 15275

CHEMICAL FAMILY: Strong exidizing mineral acid -

IN CASE OF EMERGENCY CONTACT (412) 787-8383

TRADE NAMES/SYNONYMS: Breathalyzer Test Kit Solution

CERCLA RATINGS (SCALE U-3): Health = 3, Fire = 0, Reactivity = 2

Persistence = 3

SECTION II - COMPONENTS AND CONTAMINANTS

PERCENT: 50% by volume

Sulfuric acid CCMPONENT:

PERCENT: 50% by volume

COMPONENT: Water

PERCENT: 0.25% weight/volume

COMPONENT: Potassium dichromate

0.25% weight/volume PERCENT:

COMPONENT: Silver nitrate

SECTION III - PHYSICAL DATA

DESCRIPTION: Clear, yellow solution

BOILING: POINT: Greater than 212° F.

MELTING POINT: N/A

VAPOR PRESSURE: N/A

SOLUBILITY IN WATER: 100% SOLVENT SOLUBILITY N/A

PH: Less than 1

ODOR THRESHOLD: N/A VAPOR DENSITY: N/A



P. O. BOX 4187, 2323 SYCAMORE DR., KNOXVILLE, TENNESSEE 37821 / 615 546-1336

CERTIFICATE OF ANALYSIS

Systems Innovation Inc. P. O. Box 430 Rallstead, Pennsylvania 18522 July 8, 1986

Received: July 2nd

APPLY LOUIS WENTED ROOT OF

(25 ampuls) (Our ≠ P-3396

Assay:

Silver: 254 mg/l AgN03

Manufacturers Tolerance

Present

Identification: Passes test

Passes test

USP XIX Test for Sulfate

Diphenylcarbazied dichromate test

Specific Gravity.

1.528 @ 23 C.

 $1.53 \pm 0.01 \text{ } \underline{\text{@}} 23^{\circ}\text{C}.$

Potassium dichromate:

0.252 mg/ml

Potassium dichromate 0.25 mg/ml ± 5%

Normality: 19.35

Volume persampul;

3.04 ml

Volume per ampul 3.0 + 0.1 ml

(average 4 ampuls)

"The above report indicated that this batch of ampuls complies within established tolerances for Breathalyzers solution as specified by the manufacturer, for use in all Breathalyzers.".

S KYWIND

Gail R. Hutchens; Exec. Vice-president



CERTIFICATE OF ANALYSIS

P.O. BOX 51610, KNOXVILLE, TN 27950-161 OTHER CARRIERS - 2323 SYCAMORE DR. KNOXVILL 615/546-1335

Mr. Bernard J. Kaminski National Draeger P. O. Box 120 Pittsburgh, Pennsylvania 15230

January 9, 1989 the state or a supplied white of

Received Dec. 12th recondent the

Your Lot # 8706001ND (25 ampuls) (Our # D-3203

Assúy:

252 mg/liter AgNOs

Silver: Present

Manufacturers Tolerance

Present Alleren

Identification: Present

Present

USP XIX Test for Sulfate
Diphenylcarbazied dichromate rest Prising Williams

THE PARTY OF

Specific Gravity:

@ 23°C. 1.532 Normality 19.32N 51.75% H.SO4 vol/vol Potassium dichromate: 0.250 mg/ml

The state of the s 1.53 ± 0.01 @ 23 C

Potassium dichromate 0.25

I see the second section of the second section of

Mark milaterate a scanning the state of the

Volume per ampul:

3.025 ml

(average 4 ampuls)

Volume per ampul 3.0 + 0.1 ml

"The above report indicated that this botch of amouls complies within established tolerances for Breathalyzer's solution as specified by the manufacturer, for itself a call Breathalyzer's

1 Cail R. Hutchens, Exec. Vido President



CERTIFICATE OF ANALYSIS

P.O. BOX 81610, KNOXVILLE, TN 37980-1614 COTHER CARRIERS • 2328 SYCAMORE DR. KNOXVILLE, TN 37981

Nir. Bernard J. Kaminski National Draeger P. O. Box 120 Pittsburgh, Pennsylvania 15230 January 9, 1989

Received: Dec. 12th

Your Lot # 8706001ND

(25 ampuls) (Our # 1)-3203

Assoy: 252 mg/liter AgNOs

Silver: Present

Manufacturers Telerance

.

Identification: Present Present USP XIX Test for Sulfate

Diphenylearbazied dichromate test

Specific Gravity:

1.532 @ 23°C.
Normality 19.32N
51.75% H.SO4 val/vol
Potassium dichromate:

sium dichromate: 0.250 mg/ml 1.53 = 0.01 @ 23 C.

Potassium dichromate 0.25 mg/ml ±

Volume per ampul:

3.025 ml

Volume per ampul 3.0 +

0.1 ml 2

(average 4 ampuls)

"The above report indicated that this botch of amouls complies within established tolerances survival for Breathalyzer's solution as specified by the inacufacturer, for the in all Breathalyzer's within the inacufacturer.

Gail R. Hutchens, Exec. Vice-President



P. O. BOX 4187, 2323 SYCAMORE DR., KNOXVILLE, TENNESSEE 37921 / 615 546-1335

A CONTRACTOR OF THE CONTRACTOR

CERTIFICATE OF ANALYSIS

Mr. Bernard J. Kaminski National Draeger Post Office Box 120 Pittsburgh, Pennsylvania 15230 November 24, 1986

Received: November PO#: 86-10071

Dear Mr. Kaminski:

Analysis of your compound gave the following results:

Your Lot # 8609001

(25 ampuls) (Our # R-2551)

Assay: 266 mg/liter Ag NO₃

Silver: Present

Manufacturers Tolerance

Present

Identification: Present

Present

USP XIX Test for Sulfate

Diphenylcarbazied dichromate test

Specific Gravity:

1.530

@ 23°C.

 1.53 ± 0.01 @ 23° C.

Normality 19.35 N

Potassium dichromate:

0.253 mg/ml

Potassium dichromate 0.25 mg/ml ± 5%

E Stelgme per ampul:

3.01 ml

Volume per ampul 3.0 + 0.1 ml

క్రై (average 4 ampuls)

de greathalyzer® solution as specified by the manufacturer, for use in all Breathalyzers ."

Gail R. Hutchens, Exec. Vice-President