



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 STATE PUBLIC HEALTH LABORATORY  
**ALCO-SENSOR IV WITH PRINTER MAINTENANCE REPORT**

**RECEIVED**

By Tracy Crews at 9:26 am, Feb 24, 2025

REPORT #7

Complete this report in duplicate at the time of the regular monthly preventative maintenance check, and whenever instrument is repaired. Send copy to Department of Health and Senior Services; retain original in department file.

ALCO SENSOR IV SN 111649	NAME OF AGENCY Missouri State Highway Patrol	DATE OF INSPECTION 02/21/2025
LOCATION OF INSTRUMENT (STREET AND CITY) MSHP Troop D Service Center - 5182 South Grand Avenue, Carthage, MO 64836		TIME OF INSPECTION 7:45 pm

**CHECKLIST:** Place a mark in the box by each item if found to be satisfactory or if operating within established limits. (Write in observed values where determined.) Unmarked items must be corrected before using instrument.

- DIGITAL READOUT (ALL ELEMENTS OPERATIONAL)
- TEMPERATURE OF ALCO SENSOR (10°C - 40°C)
- PRINTER WORKING PROPERLY
- TIME AND DATE DISPLAYING PROPERLY

**BREATH ALCOHOL ACCURACY STANDARDS**

- SIMULATOR SOLUTION  COMPRESSED ETHANOL-GAS MIXTURE
- STANDARD SUPPLIER Guth Laboratories, Inc. LOT # 23390 EXP. DATE 10/17/2025
- SIMULATOR TEMPERATURE (34°C ± 0.2°C) 33.99 SIM. SN MP2150 SIM. NIST EXP DATE 12/04/2025

- CALIBRATION CHECK – (ONLY ONE STANDARD IS TO BE USED PER MAINTENANCE REPORT)  
 Run three tests using a standard solution. All three tests must be within ±5% of the standard value and must have a spread of .005 or less. Check the box corresponding to the standard solution being used. (PRINTOUT ATTACHED)
  - 0.100% STANDARD - MUST READ BETWEEN 0.095% and 0.105% INCLUSIVE
  - 0.080% STANDARD - MUST READ BETWEEN 0.076% and 0.084% INCLUSIVE
  - 0.040% STANDARD - MUST READ BETWEEN 0.038% and 0.042% INCLUSIVE

TEST 1  0.098	TEST 2  0.098	TEST 3  0.099
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- RFI DETECTOR OPERATING

**INDICATE THE NUMBER OF BREATH TESTS IN THE FOLLOWING RANGES SINCE THE LAST MAINTENANCE REPORT: (DO NOT INCLUDE SELF-ADMINISTERED TESTS)**

REFUSALS	0	(0-.04)	0	(.05-.09)	0	(.10-.14)	1	(.15-.19)	0	(OVER .19)	1
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List any new parts and describe any alteration or modification that was made to restore the instrument to operate satisfactorily and within established limits (use other side if necessary).

N/A

**INSPECTING OFFICER**

SIGNATURE 	PRINT NAME Tristan M. Royster
TYPE II PERMIT NUMBER/EXPIRATION DATE 240071 03/25/2026	TELEPHONE NUMBER (417) 895-6868

**Return completed report to the:** Breath Alcohol Program, MO Department of Health and Senior Services, Southeast District Office by mail, fax, or email.

AS IV Serial no: 111649  
Version no: 532B

TEST RECORD 00849  
Temp Date Time 210L  
s/

Air Blank:  
02/21/25 19:51 .000  
Calibration Check:  
22 02/21/25 19:51 .098

Subject Name

ACC 1

Subject I.D.

N/A

Operator Name, I.D.

T. M. ROYSTER #957

Location

5182 S. GRAND AVE.

CARTHAGE, MO 64836

AS IV Serial no: 111649  
Version no: 532B

TEST RECORD 00850  
Temp Date Time 210L  
s/

Air Blank:  
02/21/25 19:54 .000  
Calibration Check:  
23 02/21/25 19:54 .098

Subject Name

ACC 2

Subject I.D.

N/A

Operator Name, I.D.

T. M. ROYSTER #957

Location

5182 S. GRAND AVE

CARTHAGE, MO 64836

AS IV Serial no: 111649  
Version no: 532B

TEST RECORD 00851  
Temp Date Time 210L  
s/

Air Blank:  
02/21/25 19:56 .000  
Calibration Check:  
23 02/21/25 19:56 .099

Subject Name

ACC 3

Subject I.D.

T. M. ROYSTER #957

Operator Name, I.D.

T. M. ROYSTER #957

Location

5182 S. GRAND AVE.

CARTHAGE, MO 64836

AS IV Serial no: 111649  
Version no: 532B

TEST RECORD 00852  
Temp Date Time 210L  
s/

VOID: RFI  
12 02/21/25 19:59

Subject Name

RFI Test

Subject I.D.

N/A

Operator Name, I.D.

T. M. ROYSTER #957

Location

5182 S. GRAND AVE.

CARTHAGE, MO 64836



# GUTH LABORATORIES, INC.

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

## CERTIFICATE OF ANALYSIS

Certified Alcohol Reference Solution for Simulator

Random Samples of Lot Number **23390** of Alcohol Reference Solution for Simulator were analyzed by gas chromatography on **October 18, 2023**, using a Perkin Elmer Gas Chromatograph Autosystem XL S/N: 610N9030209, and found to contain **0.1207%** (w/vol) ethyl alcohol. The expiration date for this lot number is **October 17, 2025** at 11:59 PM.

When used in a calibrated Simulator, operating at  $34^{\circ}\text{C} \pm .2^{\circ}\text{C}$ , this solution will give a breath alcohol analysis instrument reading of **0.100 g/210L**  $\pm 3\%$ .

The alcohol and water used in this solution were free of test interfering substances.

Ted L. Pauley, President  
GUTH LABORATORIES, INC.

*NIST Traceability:*

*Testing was conducted using Cerilliant Reference Standard lot number FN03072301 whose values are traceable to NIST.*

*All balances are calibrated annually by an outside agency using NIST traceable weights. Calibration verification is done prior to each use utilizing NIST traceable weights.*



STATE OF MISSOURI  
DEPARTMENT OF HEALTH AND SENIOR SERVICES  
BREATH ALCOHOL PROGRAM

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**PERMIT**  
**TYPE II**  
**TRISTAN M. ROYSTER**

is hereby authorized to instruct and supervise operators, train instructors, inspect, calibrate, perform field service and repairs, and operate the following breath analyzer(s):

**ALCO-SENSOR IV WITH PRINTER, INTOX DMT**

for the determination of the alcoholic content of blood from a sample of expired air. Permit issued under the provisions of sections 577.020 through 577.041, RSMo and 306.111 through 306.119 RSMo.

DATE 3/25/2024

NUMBER 240071

EXPIRES 3/25/2026

*Mike Mason*

DIRECTOR OF STATE PUBLIC HEALTH LABORATORY

*Paula F. Nicholson*

DIRECTOR OF DEPARTMENT OF HEALTH AND SENIOR SERVICES



**STATE OF MISSOURI**  
DEPARTMENT OF HEALTH AND SENIOR SERVICES  
BREATH ALCOHOL PROGRAM

**INSTRUMENT OPERATOR CARD**

*The named cardholder is authorized to operate an evidential breath alcohol instrument for the determination of the alcoholic content in breath form of expired air in Missouri.*

**Operator** ROYSTER, TRISTAN  
**Permit No** 240071  
**Date Issued** 3/25/2024    **Date Expires** 3/25/2026

