



Florida Department of
Law Enforcement

James T. "Tim" Moore
Commissioner

Criminal Investigation and
Forensic Science Services

Post Office Box 1489
Tallahassee, Florida 32302
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Certificate of Assurance

Simulator Solution Lot #97180

Concentration: 0.0605 G/dL

Lot Approved October 15, 1997

Certificate Prepared October 15, 1997

Simulator solution used in the State of Florida is prepared by a vendor on behalf of the Florida Department of Law Enforcement Alcohol Testing Program. The Alcohol Testing Program analyzes simulator solution bottles from each new lot to approve the lot for use in the State of Florida.

Simulator solution bottle samples are prepared and then analyzed by gas chromatography (GC). Three sub-samples from each simulator solution bottle analyzed are combined in a GC vial, and three vials are prepared from each analyzed simulator solution bottle.

The GC vial ethanol concentrations from each analyzed simulator solution bottle are averaged to yield an estimated concentration for each bottle. The sample bottles received and the data obtained must meet the following criteria for a lot of simulator solution to be approved for use in Florida:

- Eight or more of the ten simulator solution bottles received must be suitable for analysis;
- Two of the three GC autosampler vials must provide an analytical result for each bottle;
- The difference between any two analytical results for a bottle must be 0.0040 G/dL or less;
- Six or more of the analyzed simulator solution bottles must provide an average result; and
- All average results must fall on or between 0.0565 G/dL to 0.0645 G/dL ethanol.

A lot meeting the above criteria has a concentration indistinguishable from 0.0605 G/dL ethanol, is labeled to provide a breath reading of 0.05, and will provide a breath reading on or between 0.045 G/210L to 0.055 G/210L on a properly calibrated breath test instrument when inspected in compliance with the procedures specified in Chapter 11D-8, F.A.C.

The analytical results for lot 97180 are:

Sample Label	Bottle Number	Ethanol (G/dL)	
SIM01	0012	0.0622	0.0612 G/dL Mean 0.0005 G/dL standard deviation 0.0604 G/dL minimum observation 0.0622 G/dL maximum observation 10 observations
SIM02	0014	0.0612	
SIM03	0013	0.0618	
SIM04	1814	0.0604	
SIM05	0954	0.0610	
SIM06	0953	0.0609	
SIM07	0952	0.0611	
SIM08	1813	0.0615	
SIM09	1812	0.0610	
SIM10	1815	0.0611	

Thomas M. Wood
Senior Crime Laboratory Analyst



Florida Department of
Law Enforcement

Criminal Investigation &
Forensic Science Program

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James T. "Tim" Moore
Commissioner

October 15, 1997

MEMORANDUM

TO: File

FROM: Tom Wood, Senior Crime Laboratory Analyst *TMW*

SUBJECT: Pre-Distribution Quality Assurance Analysis of Simulator Solution Lot #97180

SAMPLE RECEIPT INSPECTION

The samples for this lot were received in a clean, dry, sealed, unpunctured, unstained brown cardboard shipping container. Samples for lots 97190 and 97200 were also enclosed in the shipping container. The packing material, one empty bottle box, was clean, dry, unpunctured and unstained. The bottles for lot 97180 were contained in pairs in five clean, dry, unsealed, unpunctured and unstained brown cardboard boxes, each labeled "Alcohol Reference Solution, Lot # 97180."

Each of the 10 bottles was shrink wrapped with clean, dry, unpunctured clear polyethylene. No moisture was observed under any of the shrink wrap. Each bottle was full to at least the shoulder with clear, debris free fluid. The inner cap seal of each bottle was intact upon opening.

SAMPLE PREPARATION

Three autosampler vials of three aliquots each were prepared for each bottle. In accordance with established analytical procedure, the sample bottles were sorted into a random order, as was the autosampler vial preparation list. There were no incidents of note during the preparation.

GAS CHROMATOGRAPHIC ANALYSIS

The autosampler vials were put into the specified order for GC analysis in the instrument carousel. The established method, sequence and summary report were prepared for this lot of simulator solution. The analysis proceeded without incident.

DATA PROCESSING

The data were processed without incident. The specifications set by the procedure, as described in the Certificate of Analysis, were met. Lot #97180 was approved for use in Florida.

TMW/hs



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James T. "Tim" Moore
Commissioner

May 27, 1998

MEMORANDUM

TO: Rod Caswell, Alcohol Testing Program Administrator

FROM: Tom Wood, Senior Crime Laboratory Analyst *TMW*

SUBJECT: Post-Distribution Quality Assurance Testing of Simulator Solution Lot #97180

Post-distribution samples of simulator solution lot #97180, supplied by Guth Laboratories, Inc., were analyzed for compliance with Alcohol Testing Program requirements on May 13, 1998.

The lot is in compliance with Alcohol Testing Program requirements.

TMW/hs



Florida Department of Law Enforcement

Criminal Investigation & Forensic Science Program

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James T. "Tim" Moore Commissioner

May 27, 1998

MEMORANDUM

TO: File
FROM: Tom Wood, Senior Crime Laboratory Analyst TMW
SUBJECT: Post-Distribution Quality Assurance Analysis of Simulator Solution Lot #97180

Ten bottles of simulator solution lot# 97180 were received from Guth Laboratories, Inc., on April 6th, for delivery to Florida law enforcement agencies swapping simulator solution they ordered from Guth Laboratories. Six agencies were contacted on April 8th for swapping simulator solution: The Broward, Escambia, Orange and Palm Beach County Sheriffs Offices, and the Edgewater and Plantation Police Departments. The FDLE simulator solution bottles were mailed to the agencies on April 10th, and the swapped bottles were received from the last responding agency on April 27th.

The swapped bottles were inventoried and prepared for analysis on May 11th. Each of the six shipping containers was sealed, clean, dry, unstained, unpunctured and untornd when received. The packaging material for all six boxes, either bubble wrap or Styrofoam beads, was clean and dry. All 10 bottles were polyethylene wrapped, still sealed and intact, with no moisture underneath the wrapper. The inner cap seal of each of the 10 bottles was intact and dry.

The following bottle numbers were received for lot# 97180:

Table with 4 columns: FDLE Bottle # Swapped, Agency Bottle # Received, From Agency, Information Found on Each Bottle. Rows list bottle numbers 1775 through 1798 and their corresponding agency and information.

SAMPLE PREPARATION

Three autosampler vials of three aliquots each were prepared for each bottle on May 13th. In accordance with established procedure, the sample bottles were sorted into a random order, as was the autosampler vial preparation list. The pipettor/diluter delivered 400 uL internal standard (40% stop installed) and 100 uL sample (no stop installed). There were no incidents of note during the preparation other than the ones listed in the next paragraph.

The vials for CAL 3A, 3B, 4A and 4B were labeled with the wrong concentrations when I skipped over the 0.100 g/dL calibrator. The labels were corrected. The SIM06C vial was dropped on the counter after vortexing, which wetted the cap and septum. Since that shouldn't cause any difficulty, the vial was not replaced. The first draw for vial SIM08C was dispensed into the vial rather than to waste. The vial was discarded and a new one prepared.

GAS CHROMATOGRAPHIC ANALYSIS

The autosampler vials were put into the specified order for GC analysis in the instrument carousel. The established method, sequence and summary report were prepared for this lot of simulator solution. The analysis proceeded without incident except as noted in the following paragraph.

While printing the GC Summary Report for lot # 97180, I didn't change the summary report file name from 9718pre.sum to the correct 9718pst.sum name. The GC software assigned the summary report the name 9718preA.sum, as usual when a file name is duplicated. When moving the GC.csv file to diskette I corrected the summary report file name to the correct 9718pst name.

DATA PROCESSING

The data were processed without incident. The Certificate of Analysis specifications were still met.

TMW/hs