

**WASHINGTON STATE TOXICOLOGY LABORATORY**  
 FORENSIC LABORATORY SERVICES BUREAU  
 WASHINGTON STATE PATROL  
 2203 AIRPORT WAY S, SUITE 360  
 SEATTLE, WASHINGTON 98134-2027  
 (206) 262-6100 FAX (206) 262-6145

Preparation and certification of **0.08** g/210L **Simulator External Standard solution**

Batch number **03025**

Date: 7/8/2003

Preparation: 69.1 mL of absolute ethyl alcohol diluted to 54 Liters with water

Concentration of ethanol (g/100mL) measured by gas chromatography:

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.101	0.101	0.097	0.102	0.101	0.101	0.101	0.101	0.101	0.101		
2	0.103	0.102	0.099	0.102	0.103	0.101	0.101	0.101	0.101	0.101		
3	0.101	0.102	0.099	0.102	0.102	0.101	0.101	0.101	0.096	0.101		
4	0.101	0.102	0.099	0.102	0.102	0.100	0.100	0.101	0.101	0.102		
5	0.101	0.103	0.099	0.102	0.103	0.101	0.101	0.100	0.102	0.101		
Ctrl	0.099	0.100	0.097	0.100	0.101	0.099	0.099	0.100	0.101	0.100		

**External Control:**

Lot #: A022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

**Statistics:**

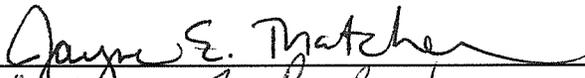
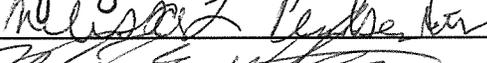
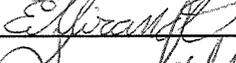
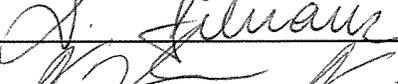
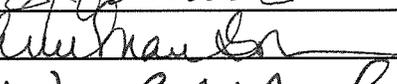
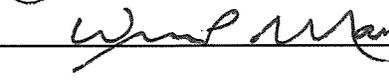
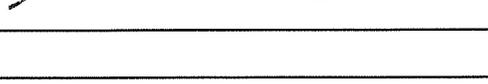
Avg. solution concent.: 0.1010 g/100 mL

SD: 0.00135

Range (3xSD): 0.0970 to 0.1050

Precision CV (%): 1.3328 %

**Equivalent vapor concent.:** 0.0821 g/210L

Analyst	Name	Signature	Date
1	Jayne E. Thatcher		07/09/03
2	Melissa Pemberton		07/10/03
3	Mary E Wilson		07/11/03
4	Asa Louis		07/14/03
5	Estuardo J. Miranda		07/14/03
6	Dorota B. Schranz		07/16/03
7	Naziha Nuwayhid, PhD		07/16/03
8	Edward Formoso		07/22/03
9	Ann Marie Gordon		07/24/03
10	William P Marshall		07/29/03
11			
12			

Prepared by: Jayne E. Thatcher according to the approved protocol



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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION  
CERTIFICATION

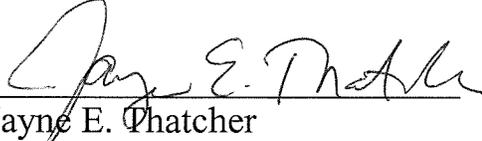
I, Jayne E. Thatcher, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Cell and Molecular Biology and two years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

  
Jayne E. Thatcher  
Forensic Toxicologist

JET/bf  
JTSIMSOL





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I, Melissa L. Pemberton, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Bachelors degree in Microbiology and ten years of experience as a forensic toxicologist.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

  
Melissa L. Pemberton  
Forensic Toxicologist

MP/bf  
MPSIMSOL





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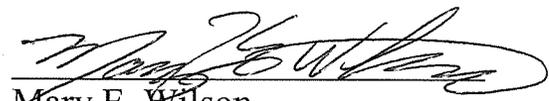
I, Mary E. Wilson, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Biology and a minor in Chemistry with two years of experience in Toxicology.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

  
Mary E. Wilson  
Forensic Toxicologist

MEW/bf  
MEWSIMSOL





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I, Asa J. Louis, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Biochemistry and seven years in Toxicology.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

Asa J. Louis  
Forensic Toxicologist

AJL/bf  
AJLSIMSOL





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I, Estuardo J. Miranda, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Bachelor of Science in Chemistry, Master of Science in Zoology, seven years experience in biochemical research and five years experience in Forensic Toxicology.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

Estuardo J. Miranda  
Forensic Toxicologist

EM/bf  
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I, Dorota Schranz, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Ph.D. degree in Medical Sciences, M.S. degree in Medical Technology, and nine years analytical laboratory experience.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

Dorota Schranz, Ph.D.  
Forensic Toxicology Technical Lead

DS/bf  
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I, Naziha Nuwayhid, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Bachelor and Masters degrees in Biology, Ph.D. degree in Basic Medical Science, ten years experience in clinical laboratory sciences, one year in clinical toxicology and three years in forensic toxicology. I am also board certified by the American Board of Clinical Chemistry.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

  
Naziha Nuwayhid, Ph.D.  
Forensic Toxicologist

NN/bf  
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I, Edward J. Formoso, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-eight years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

Edward J. Formoso  
Forensic Toxicologist

EJF/bf  
EFSIMSOL





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I, Ann Marie Gordon, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Masters degree in Microbiology and Immunology and twelve years of experience as a forensic toxicologist.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

Ann Marie Gordon  
Laboratory Manager

AMG/bf  
AGSIMSOL





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I, William P. Marshall, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-nine years of analytical laboratory experience including thirteen years of toxicology experience.

The simulator solution, Lot Number 03025, was prepared in the Washington State Toxicology Laboratory on 7/8/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/8/04.

Dated: 8/6/03  
Seattle, WA

William P. Marshall  
Forensic Toxicologist

WM/bf  
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I, Ann Marie Gordon, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Masters degree in Microbiology and Immunology and fifteen years of experience as a forensic toxicologist.

The simulator solution, Lot Number 03026, was prepared in the Washington State Toxicology Laboratory on 7/17/03. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 7/17/04.

Dated: 9/23/03  
Seattle, WA

Ann Marie Gordon  
Laboratory Manager

AMG/bf  
AGSIMSOL

