

**WASHINGTON STATE TOXICOLOGY LABORATORY**  
 FORENSIC LABORATORY SERVICES BUREAU  
 WASHINGTON STATE PATROL  
 2203 AIRPORT WAY S, SUITE 360  
 SEATTLE, WASHINGTON 98134-2027  
 (206) 464-5435 FAX (206) 389-2738

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

Batch number **02007**

Date: 3/20/2002

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	Anal 10	Anal 11	Anal 12
1	0.102	0.104	0.100	0.101	0.102	0.100	0.100	0.102	0.101			
2	0.101	0.103	0.099	0.101	0.101	0.100	0.101	0.101	0.103			
3	0.102	0.104	0.100	0.102	0.100	0.101	0.100	0.101	0.101			
4	0.101	0.103	0.099	0.102	0.100	0.100	0.101	0.101	0.103			
5	0.102	0.103	0.100	0.102	0.100	0.100	0.101	0.100	0.100			
Ctrl	0.101	0.102	0.099	0.100	0.102	0.101	0.101	0.102	0.100			

**CAP Control:**

Lot #: 8180 Exp date: 6/22/02

Target concentration: 0.101 g/100mL

**Statistics:**

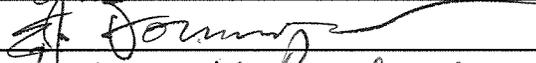
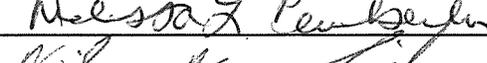
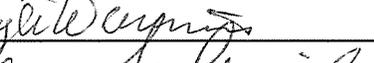
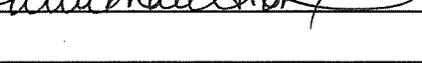
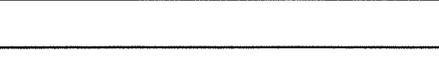
Avg. solution concent.: 0.1011 g/100 mL

SD: 0.00124

Range (3xSD): 0.0974 to 0.1049

Precision CV (%): 1.2290 %

**Equivalent vapor concent.:** 0.0822 g/210L

Analyst	Name	Signature	Date
1	Estuardo J. Miranda		03/21/02
2	Edward Formoso		03/21/02
3	Melissa Pemberton		03/22/02
4	Naziha Nuwayhid, PhD		03/21/02
5	William P Marshall		03/26/02
6	Ruth Luthi		03/27/02
7	Egle Weiss		03/27/02
8	Eugene Schwilke		03/26/02
9	Ann Marie Gordon		04/03/02
10			
11			
12			

Prepared by: Estuardo J. Miranda

according to the approved protocol



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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION  
CERTIFICATION

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 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

  
Melissa L. Pemberton  
Forensic Toxicologist

MP/nf  
MPSIMSOL





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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION  
CERTIFICATION

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 four years experience in Forensic Toxicology.

The simulator Solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

Estuardo J. Miranda  
Forensic Toxicologist

EM/nf  
EMSIMSOL





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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-five years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

Edward J. Formoso  
Forensic Toxicologist

EJF/nf  
EFSIMSOL





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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 two years in forensic toxicology. I am also board certified by the American Board of Clinical Chemistry.

The simulator solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

  
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Naziha Nuwayhid, Ph.D.  
Forensic Toxicologist

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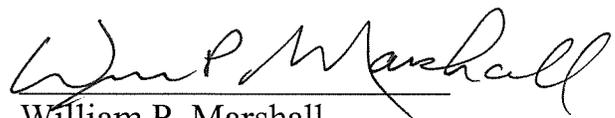
I, William P. Marshall, do certify under penalty of perjury that:

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-eight years of analytical laboratory experience including twelve years of toxicology experience.

The simulator solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

  
William P. Marshall  
Forensic Toxicologist

WM/nf  
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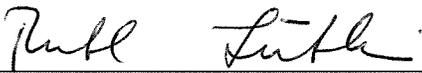
I, Ruth Luthi, do certify under penalty of perjury that:

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-two years of experience in analytical chemistry, and eighteen years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

  
\_\_\_\_\_  
Ruth Luthi  
Forensic Toxicologist

RL/nf  
RLSIMSOL





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I, Egle Weiss, 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: MS degree in Chemistry and twenty-six years experience in analytical chemistry, and seventeen years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

Egle Weiss  
Forensic Toxicologist

EW/nf  
EWSIMSOL





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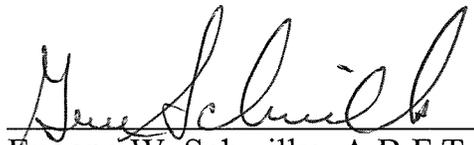
I, Eugene W. Schwilke, do certify under penalty of perjury that:

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, Board Certification from the American Board of Forensic Toxicology, and five years of experience in the Washington State Toxicology Laboratory.

The Simulator Solution, Lot Number 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

  
Eugene W. Schwilke, A.B.F.T.  
Forensic Toxicologist

GS/nf  
GSSIMSOL





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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 02007, was prepared in the Washington State Toxicology Laboratory on 3/20/02. 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 3/20/03.

Dated: 4/16/02  
Seattle, WA

Ann Marie Gordon  
Laboratory Manager

AMG/nf  
AGSIMSOL

