

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 **Quality Assurance solution**

Batch number **03038**

Date: 11/26/2003

Preparation: 22.2 mL of absolute ethyl alcohol diluted to 18 Liters with water

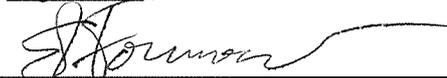
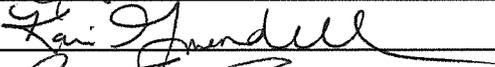
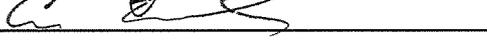
Concentration of ethanol (g/100mL) measured by gas chromatography:

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.098	0.099	0.099									
2	0.098	0.099	0.099									
3	0.099	0.099	0.099									
4	0.099	0.099	0.099									
5	0.099	0.099	0.099									
Ctrl	0.100	0.100	0.101									

External Control:
 Lot #: A024546 Exp date: 09/05
 Target concentration: 0.10 g/100mL

Statistics:
 Avg. solution concent.: 0.0989 g/100 mL
 SD: 0.00035
 Range (3xSD): 0.0978 to 0.0999
 Precision CV (%): 0.3559 %

Equivalent vapor concent.: 0.0804 g/210L

Analyst	Name	Signature	Date
1	Edward Formoso		12/02/03
2	Kari Gruendell		12/01/03
3	Asa Louis		12/01/03
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10			
11			
12			

Prepared by: Edward Formoso according to the approved protocol



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, Edward J. Formoso, do certify under penalty of perjury as follows:

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: B.S. degree in Chemistry and twenty-eight years experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03038, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0989 grams per 100ml.

Dated: 12/3/03
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/bf
EFQA





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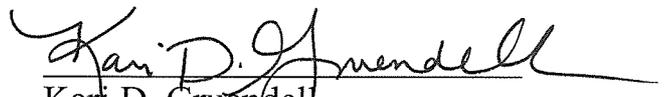
I, Kari D. Gruendell, do certify under penalty of perjury as follows:

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: BS degree in Biology and a minor in Chemistry and two years of analytical laboratory experience.

The quality assurance solution, Lot Number 03038, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0989 grams per 100ml.

Dated: 12/3/03
Seattle, WA


Kari D. Gruendell
Forensic Toxicologist

KDG/bf
KDGQA





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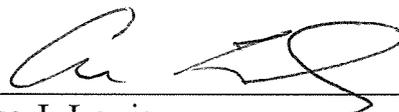
I, Asa J. Louis, do certify under penalty of perjury as follows:

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: BS degree in Biochemistry and seven years in Toxicology.

The quality assurance solution, Lot Number 03038, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0989 grams per 100ml.

Dated: 12/3/03
Seattle, WA



Asa J. Louis
Forensic Toxicologist

AJL/bf
AJLQA

