

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 **0.15 g/210L Quality Assurance solution**

Batch number **03037**

Date: 10/27/2003

Preparation: 42.3 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	0.187	0.187	0.188									
2	0.188	0.187	0.185									
3	0.188	0.187	0.187									
4	0.187	0.187	0.187									
5	0.187	0.187	0.189									
Ctrl	0.099	0.099	0.099									

External Control:

Lot #: A024546 Exp date: 09/05

Target concentration: 0.10 g/100mL

Statistics:

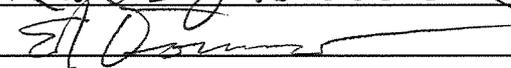
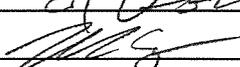
Avg. solution concent.: 0.1872 g/100 mL

SD: 0.00086

Range (3xSD): 0.1846 to 0.1898

Precision CV (%): 0.4604 %

Equivalent vapor concent.: 0.1522 g/210L

Analyst	Name	Signature	Date
1	Kari Gruendell		10/29/03
2	Edward Formoso		10/29/03
3	Brian Capron		10/29/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Kari Gruendell according to the approved protocol



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

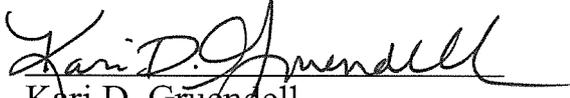
I, Kari D. Gruendell, do certify under penalty of perjury as follows:

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 03037, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1872 grams per 100ml.

Dated: 12/3/03
Seattle, WA


Kari D. Gruendell
Forensic Toxicologist

KDG/bf
KDGQA





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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 03037, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1872 grams per 100ml.

Dated: 12/3/03
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/bf
EFQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

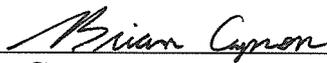
I, Brian Capron, do certify under penalty of perjury as follows:

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 eight years of experience in forensic toxicology.

The quality assurance solution, Lot Number 03037, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1872 grams per 100ml.

Dated: 12/3/03
Seattle, WA



Brian Capron
Forensic Toxicologist

BC/bf
BCQA

