

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 **03045**

Date: 12/19/2003

Preparation: 42.3 mL of absolute ethyl alcohol diluted to 18 Liters with water

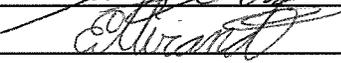
Concentration of ethanol (g/100mL) measured by gas chromatography:

| | Anal 1 | Anal 2 | Anal 3 | Anal 4 | Anal 5 | Anal 6 | Anal 7 | Anal 8 | Anal 9 | Anal10 | Anal 11 | Anal 12 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | 0.184 | 0.184 | 0.185 | | | | | | | | | |
| 2 | 0.184 | 0.184 | 0.186 | | | | | | | | | |
| 3 | 0.183 | 0.184 | 0.183 | | | | | | | | | |
| 4 | 0.183 | 0.183 | 0.184 | | | | | | | | | |
| 5 | 0.183 | 0.185 | 0.183 | | | | | | | | | |
| Ctrl | 0.100 | 0.098 | 0.099 | | | | | | | | | |

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

Statistics:
 Avg. solution concent.: 0.1839 g/100 mL
 SD: 0.00092
 Range (3xSD): 0.1811 to 0.1866
 Precision CV (%): 0.4979 %

Equivalent vapor concent.: 0.1495 g/210L

| Analyst | Name | Signature | Date |
|---------|------------------|--|----------|
| 1 | Asa Louis |  | 12/19/03 |
| 2 | Mary E Wilson |  | 12/19/03 |
| 3 | Estuardo Miranda |  | 12/19/03 |
| 4 | | | |
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| 12 | | | |

Prepared by: Asa Louis according to the approved protocol



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

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 03045, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1839 grams per 100ml.

Dated: 12/29/03
Seattle, WA

Asa J. Louis
Forensic Toxicologist

AJL/bf
AJLQA





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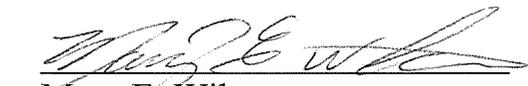
I, Mary E. Wilson, do certify under penalty of perjury as follows:

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 with two years of experience in toxicology, including one year in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03045, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1839 grams per 100ml.

Dated: 12/29/03
Seattle, WA


Mary E. Wilson
Forensic Toxicologist

MEW/bf
MEWQA



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, Estuardo J. Miranda, 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: Bachelor of Science in Chemistry, Master of Science in Zoology, seven years experience in biochemical research and five years experience in Forensic Toxicology.

The quality assurance solution, Lot Number 03045 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1839 grams per 100ml.

Dated: 12/29/03
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/bf
EMQA

