

**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 **05046** Date: 11/21/2005  
 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	Anal 10	Anal 11	Anal 12	Anal 13	Anal 14	Anal 15	Anal 16
1	0.188	0.188	0.185													
2	0.187	0.187	0.186													
3	0.187	0.187	0.187													
4	0.187	0.186	0.186													
5	0.188	0.189	0.188													
Ctrl	0.099	0.101	0.099													

**External Control:**  
 Lot #: a028603 Exp date: 12/07  
 Target concentration: 0.10 g/100mL

**Statistics:**  
 Avg. solution concent.: 0.1871 g/100 mL  
 SD: 0.00103  
 Range (3xSD): 0.1840 to 0.1902  
 Precision CV. (%): 0.5520 %

**Equivalent vapor concent.:** 0.1521 g/210L

Analyst	Name	Signature	Date
1	Justin Knoy	<i>Justin Knoy</i>	11/22/2005
2	Kari Gruendell	<i>Kari Gruendell</i>	11/22/2005
3	William P Marshall	<i>William P Marshall</i>	11/23/2005
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*Gilbert Swanson*  
 L 69127 / 06784  
 PLTF./PETR. EXH. NO. \_\_\_\_\_  
 DEFT./RESP. EXH. NO. \_\_\_\_\_ 13  
 ADMITTED REJECTED \_\_\_\_\_

Prepared by: Justin Knoy according to the approved protocol



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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION

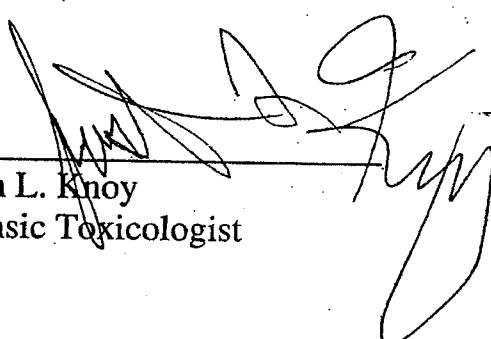
I, Justin L. Knoy, do certify under penalty of perjury as follows:

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

I possess the following qualifications: BS degree in Biology, and MS degree in Forensic Science.

The quality assurance solution, Lot Number 05046, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 11/21/05  
Seattle, WA

  
Justin L. Knoy  
Forensic Toxicologist

JLK/la  
JKQA





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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 DataMaster 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 05046, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 11/21/05  
Seattle, WA

Kari D. Gruendell  
Forensic Toxicologist

KDG/la  
KDGQA



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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION

I, William P. Marshall, 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 DataMaster breath test instrument.

I possess the following qualifications: BS degree in Chemistry and thirty-one years of analytical laboratory experience including fifteen years of toxicology experience.

The quality assurance solution, Lot Number 05046 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1871 grams per 100ml.

Dated: 11/21/05  
Seattle, WA

William P. Marshall  
Forensic Toxicologist

WPM/la  
WMQA

