

State of North Dakota     )  
  )ss  
County of Burleigh         )

I, Charles E. Eder, do hereby certify that I am a duly-appointed State Toxicologist for the State of North Dakota and an official custodian of the records and files of the office thereof, that I have carefully compared the

**Ethanol Breath Standard Analytical Report, Lot No. 23413160A1, Expiration 09/01/2015**

hereto attached with the respective original as the same appears of record on file at the Office of Attorney General, Crime Laboratory Division, in the County of Burleigh, North Dakota, and find the same to be a true and correct copy thereof and of the whole thereof. In witness whereof I have set my hand at the city of Bismarck, in said county this:

20<sup>th</sup> day of SEPTEMBER, 2013

*Charles E. Eder*  
Charles E. Eder, State Toxicologist

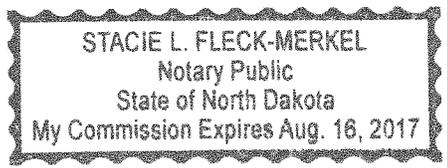
State of North Dakota     )  
  )ss  
County of Burleigh         )

On this 20 day of September, 2013, before me personally appeared Charles E. Eder, known to me to be a State Toxicologist for the State of North Dakota, and acknowledged to me that he/she has executed the same.

Subscribed to and sworn before me this:

20 day of September, 2013

*Stacie L Fleck-Merkel*  
Stacie L. Fleck-Merkel, Notary Public, State of North Dakota  
My Commission Expires August 16, 2017



(SEAL)

## ETHANOL BREATH STANDARD ANALYTICAL REPORT

Ethanol Breath Standard Lot Number 23413160A1 Expiration Date 9/1/2015

This standard was analyzed by ILMO Specialty Gases with a reported result of 416.8 ppm which is the equivalent of 0.160 AC of Ethanol in Nitrogen. ILMO Specialty Gases has provided a Certificate of Analysis traceable to N.I.S.T. SRM Ethanol Standards.

A proper result for the standard test using a cylinder of this lot number would be the range of 0.152 to 0.168 g ethanol/210 L of vapor (g/100 ml of blood or g/210 L of end expiratory breath).

The Intoxilyzer® will print out the value of the standard test in 3 digits on Intoxilyzer® Test Record (Form 106-I8000).

The number of cylinders sent to each location will be based on need. The standard may be used until the date of expiration as indicated by the manufacturer's Certificate of Analysis.



Charles E. Eder, State Toxicologist

20 SEP 13

Date Approved



7 Eastgate Dr. • P.O. Box 790 • Jacksonville, IL 62651-0790  
217-245-2183 • Fax: 217-243-7634 • www.ilmoproducts.com

## Certificate of Analysis

**Certificate ID:** 5484  
**Part #:** BAC105L160T  
**Cylinder Size:** 105L  
**Lot Number:** 23413160A1  
**Expiration:** 9/1/2015

### 0.160 BAC (For use with breath alcohol testing instruments)

**Contents:** 105 Liters @ 1000 psig 70°F (21°C)

Component:	Concentration:	Accuracy:	Method:
Ethanol	416.8 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

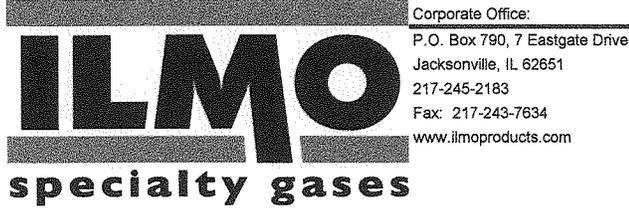
\*NIST Standard Reference Material  
Cylinder No. CC14290 / Job No. 09160202  
Certified 212.8 µmol/mol Ethanol in Nitrogen  
for ILMO Products Co., Jacksonville, IL

  
Specialty Gas Lab Tech

08/30/13  
Date

Distributed by: CMI Inc.  
316 East Ninth Street  
Owensboro, KY 42303  
Phone 866-835-0690  
[www.alcoholtest.com](http://www.alcoholtest.com)





## Certificate of Analysis

<b><u>Customer</u></b>	CMI Calibration Laboratory, CMI Inc. 316 East Ninth Street, Owensboro, KY 42303
<b><u>Item Description</u></b>	Ethanol Dry Gas Standard (Ethanol in Nitrogen)
<b><u>Target Value</u></b>	0.160 BAC
<b><u>Lot Number</u></b>	23413160A1
<b><u>Manufacture Date</u></b>	August 21, 2013
<b><u>Expiration Date</u></b>	September 1, 2015
<b><u>Analysis Type/Test Method</u></b>	NDIR/DMT-1
<b><u>Lot Average (ppm/BAC)</u></b>	419.0/0.161
<b><u>Lot Measurement of Uncertainty [<math>\pm</math> ppm/BAC]</u></b>	4.7/0.0018

<u>NTRM Information</u>	
Batch#	09160202
Serial#	CC14290
Reported NIST Value (ppm)	212.8

*Jacob Matter*  
Specialty Gas Analytical Lab Technician  
ILMO Products Company

*08/30/13*  
Date

\* The stated expanded uncertainty was determined from the combined uncertainty associated with the following: calibration standard, equipment accuracy, repeatability and random variability (instrument readability).

The uncertainty is expressed as  $U = ku$ , where  $u$  is the combined standard uncertainty and the coverage factor  $k$  is equal to 2, yielding a level of confidence of approximately 95%.

\* The results on this report relate only to the items tested in the group of cylinders designated by the 'Lot Number' field.