

JCS 1/12/16
1/6



ISO/IEC 17025:2005 Accredited Laboratory

Certificate of Analysis

Certificate ID: 8503
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 28515100A1
Expiration: 11/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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

Component:	Concentration:	Accuracy:	Method:
Ethanol	260 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

Store in dry area, away from sources of heat, ignition and direct sunlight. Do not allow storage area to exceed 52 °C (125 °F).

James Matter
Specialty Gas Lab Tech

10/29/15
Date



Distributed by:

CMI Inc.
316 East Ninth Street
Owensboro, KY 42303
Phone 866-835-0690
www.alcoholtest.com

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Large GEBS
for Alco sensor checks

Rec'd 11.16.15
JCS 8393



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Certificate of Analysis

Certificate ID: 8539
Part #: BAC33AL080T
Cylinder Size: 33AL
Lot Number: 29415080A1
Expiration: 11/5/2017

In use
9/26/16

0.080 BAC (For the calibration of instruments used to determine breath alcohol concentration)

Contents: 3l Cu Ft @ 2215 psig 70°F (21°C)

Component:	Concentration:	Accuracy:	Method:
Ethanol	208 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

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Corporate Office:
P.O. Box 790, 7 Eastgate Drive
Jacksonville, IL 62651
217-245-2183
Fax: 217-243-7634
www.ilmoproducts.com



Certificate of Analysis

Customer

CMI Calibration Laboratory, CMI Inc.
316 East Ninth Street, Owensboro, KY 42303

Item Description

Ethanol Dry Gas Standard (Ethanol in Nitrogen)

Target Value

0.080 BAC

Lot Number

29415080A1

Manufacture Date

October 21, 2015

Expiration Date

November 5, 2017

Analysis Type/Test Method

NDIR/DMT-1

Lot Average (ppm/BAC)

212.2/0.081

Lot Measurement of

Uncertainty [\pm ppm/BAC]

4.7/0.0018

NTRM Information

Batch#	09160202
Serial#	CC14290
Reported NIST Value (ppm)	212.8

James Maittey
Specialty Gas Analytical Lab Technician
ILMO Products Company

11/05/15
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.

Rec'd 10-12-15
JS 8393

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Certificate of Analysis

Certificate ID: 8441
Part #: BAC105L200T
Cylinder Size: 105L
Lot Number: 26615200A1
Expiration: 10/5/2017

0.200 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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

Component:	Concentration:	Accuracy:	Method:
Ethanol	521 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

*NIST Standard Reference Material
Cylinder No. CCI 4290 / Job No. 09160202
Certified 212.8 µmol/mol Ethanol in Nitrogen
for ILMO Products Co., Jacksonville, IL

Store in dry area, away from sources of heat, ignition
and direct sunlight. Do not allow storage area to
exceed 52 °C (125 °F).

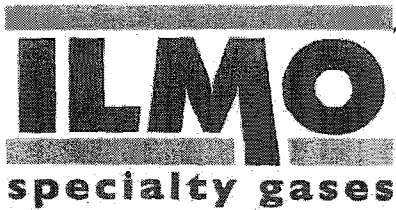
Jacob Mathey
Specialty Gas Lab Tech

09/30/15
Date

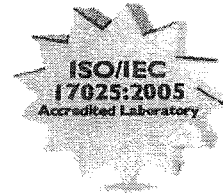
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Owensboro, KY 42303
Phone 866-835-0690
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Jacksonville, IL 62851
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Fax: 217-243-7634
www.ilmo-products.com



Certificate of Analysis

Customer CMI Calibration Laboratory, CMI Inc.
316 East Ninth Street, Owensboro, KY 42303

Item Description Ethanol Dry Gas Standard (Ethanol in Nitrogen)

Target Value 0.200 BAC

Lot Number 26615200A1

Manufacture Date September 23, 2015

Expiration Date October 5, 2017

Analysis Type/Test Method NDIR/DMT-1

Lot Average (ppm/BAC) 524.1/0.201

Lot Measurement of Uncertainty [% ppm/BAC] 4.7/0.0018

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

Jacob Matley
Specialty Gas Analytical Lab Technician
ILMO Products Company

09/30/15
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.

Rec'd 6/22/15

6F 8445

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Certificate of Analysis

Certificate ID: 7985
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 08915100A2
Expiration: 5/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

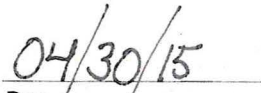
Contents: 105 Liters @ 1000 psig 70°F (21°C)

Component:	Concentration:	Accuracy:	Method:
Ethanol	260 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

*NIST Standard Reference Material
Cylinder No. CCI4290 / Job No. 09160202
Certified 212.8 µmol/mol Ethanol in Nitrogen
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Store in dry area, away from sources of heat, ignition
and direct sunlight. Do not allow storage area to
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Specialty Gas Lab Tech


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Certificate of Analysis

Certificate ID: 7985
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 08915100A2
Expiration: 5/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

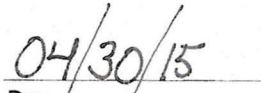
Contents: 105 Liters @ 1000 psig 70°F (21°C)

Component:	Concentration:	Accuracy:	Method:
Ethanol	260 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

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Cylinder No. CCI4290 / Job No. 09160202
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Certificate of Analysis

Certificate ID: 7985
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 08915100A2
Expiration: 5/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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

Component:	Concentration:	Accuracy:	Method:
Ethanol	260 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

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04/30/15
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Certificate of Analysis

Certificate ID: 7942
Part #: BAC105L040T
Cylinder Size: 105L
Lot Number: 07515040A5
Expiration: 4/5/2017

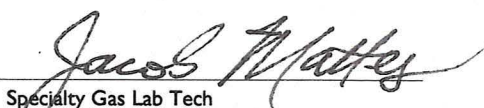
0.040 BAC (For the calibration of instruments used to determine breath alcohol concentration)

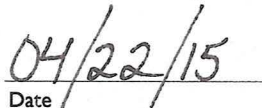
Contents: 105 Liters @ 1000 psig 70°F (21°C)

Component:	Concentration:	Accuracy:	Method:
Ethanol	103.5 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

*NIST Standard Reference Material
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Certificate of Analysis

Certificate ID: 8098
Part #: BAC105L080T
Cylinder Size: 105L
Lot Number: 12415080A5
Expiration: 6/5/2017

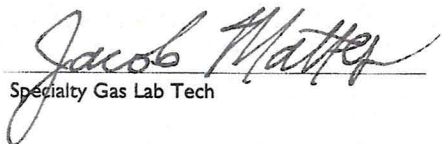
0.080 BAC (For the calibration of instruments used to determine breath alcohol concentration)

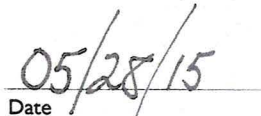
Contents: 105 Liters @ 1000 psig 70°F (21°C)

Component:	Concentration:	Accuracy:	Method:
Ethanol	208 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

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2 of 10



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Certificate of Analysis

Certificate ID: 7605
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 36314100A4
Expiration: 2/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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

Component:	Concentration:	Accuracy:	Method:
Ethanol	260 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

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Certificate of Analysis

Certificate ID: 7605
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Certificate of Analysis

Certificate ID: 7605
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 36314100A4
Expiration: 2/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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Component:	Concentration:	Accuracy:	Method:
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Nitrogen	Balance	BAC whichever is greater	

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Certificate of Analysis

Certificate ID: 7605
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 36314100A4
Expiration: 2/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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

Component:	Concentration:	Accuracy:	Method:
Ethanol	260 ppm	+/- 0.002 or 2%	NDIR
Nitrogen	Balance	BAC whichever is greater	

*NIST Standard Reference Material
Cylinder No. CCI4290 / Job No. 09160202
Certified 212.8 µmol/mol Ethanol in Nitrogen
for ILMO Products Co., Jacksonville, IL

Store in dry area, away from sources of heat, ignition
and direct sunlight. Do not allow storage area to
exceed 52 °C (125 °F).


Specialty Gas Lab Tech

01/27/15
Date

Distributed by: CMI Inc.
316 East Ninth Street
Owensboro, KY 42303
Phone 866-835-0690
www.alcoholtest.com





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GF 8445

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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: 7605
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 36314100A4
Expiration: 2/5/2017

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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Certificate of Analysis

Customer CMI Calibration Laboratory, CMI Inc.
316 East Ninth Street, Owensboro, KY 42303

Item Description Ethanol Dry Gas Standard (Ethanol in Nitrogen)

Target Value 0.100 BAC

Lot Number 36314100A4

Manufacture Date December 29, 2014

Expiration Date February 5, 2017

Analysis Type/Test Method NDIR/DMT-1

Lot Average (ppm/BAC) 262.9/0.101

**Lot Measurement of
Uncertainty [\pm ppm/BAC]** 4.7/0.0018

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

James Matter
Specialty Gas Analytical Lab Technician
ILMO Products Company

01/27/15
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.



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Certificate of Analysis

Customer CMI Calibration Laboratory, CMI Inc.
316 East Ninth Street, Owensboro, KY 42303

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Certificate of Analysis

Certificate ID: 7463
Part #: BAC105L100T
Cylinder Size: 105L
Lot Number: 32114100A1
Expiration: 12/5/2016

0.100 BAC (For the calibration of instruments used to determine breath alcohol concentration)

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

Component:	Concentration:	Accuracy:	Method:
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Specialty Gas Lab Tech

12/16/14
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