

FAST FACTS

At-a-Glance Product Information from Restek

Ethanol Analytical Reference Standards for Blood Alcohol Testing

Capillary GC Columns



Rtx®-BAC1 (fused silica)

ID	df (µm)	30-Meter
0.32mm	1.80	18003
0.53mm	3.00	18001

Rtx®-BAC2 (fused silica)

ID	df (µm)	30-Meter
0.32mm	1.20	18002
0.53mm	2.00	18000

MXT®-BAC1 (Silcosteel®-treated stainless)

ID	df (µm)	30-Meter
0.53mm	3.00	78001

MXT®-BAC2 (Silcosteel®-treated stainless)

ID	df (µm)	30-Meter
0.53mm	2.00	78000

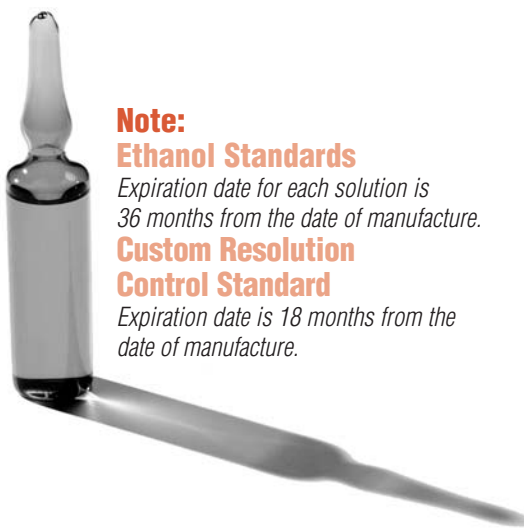
- NIST-traceable ethanol calibration standards from 0.015g/dL to 0.4g/dL in water.
- Eight-component resolution control standard with NIST-certified ethanol concentration.
- Datapack and Certificate of Analysis provided with each standard.

Legal limits for blood alcohol in the United States are set at either 0.080 or 0.100g/dL. We offer high- and low-concentration standards so that laboratories can construct calibration curves that bracket either legal limit concentration. In addition, we offer 0.015g/dL and 0.025g/dL concentrations, which are important in “zero-tolerance” cases involving minors or convicted DUI offenders.

These standards are National Institute of Standards and Technology (NIST)-traceable and are shipped with a complete data pack that includes a Certificate of Analysis, copies of all raw material testing results, statistical QA results, analytical balance printout, and a lot sheet showing gravimetric weight of each analyte.

Use our Resolution Control Standard mix to verify the retention time for each compound normally detected in a blood alcohol test, and to verify that the compounds are resolved from and do not interfere with each other. Each compound in this resolution mix is 0.100g/dL. The ethanol concentration is an NIST-traceable certified value.

We also offer Rtx®-BAC1 and Rtx®-BAC2 columns, which can resolve a blood alcohol sample in less than 3 minutes. If you have any questions about blood alcohol methods, or these products, please contact our Technical Service Team at support@restekcorp.com or via phone at 800-356-1688 or 814-353-1300, ext. 4. To order call ext. 3.



Note: Ethanol Standards

Expiration date for each solution is 36 months from the date of manufacture.

Custom Resolution Control Standard

Expiration date is 18 months from the date of manufacture.

Forensic Ethanol Solutions w/data pack

Forensic ethanol solutions w/data pack	5-pk. 1mL/ampul	10-pk. 1mL/ampul	ea. 5mL/ampul	ea. 20mL/ampul
0.015g/dL forensic ethanol solution	36232	36332	36240	36248
0.02g/dL forensic ethanol solution	36233	36333	36241	36249
0.025g/dL forensic ethanol solution	36234	36334	36242	36250
0.04g/dL forensic ethanol solution	36235	36335	36243	36251
0.05g/dL forensic ethanol solution	36257	36259	36258	36260
0.08g/dL forensic ethanol solution	36262	36264	36263	36265
0.1g/dL forensic ethanol solution	36236	36336	36244	36252
0.15g/dL forensic ethanol solution	36237	36337	36245	36253
0.2g/dL forensic ethanol solution	36238	36338	36246	36254
0.3g/dL forensic ethanol solution	36239	36339	36247	36255
0.4g/dL forensic ethanol solution	36266	36268	36267	36269

Blood Alcohol Mix Resolution Control Standard (8 components)

acetaldehyde	ethanol (NIST certified value)	methanol
acetone	ethyl acetate	methyl ethyl ketone
acetonitrile	isopropanol	

0.100g/dL each in water, 1mL/ampul

Each w/data pack

36256



**Ethanol Analytical Reference Standards
for Blood Alcohol Testing**



At-a-Glance
Product
Information
from Restek

*Restek is your free
technical literature source!*

For literature:

- **Call** 814-353-1300 or
800-356-1688, ext. 5
- **Fax** 814-353-1309
- **Online** www.restekcorp.com

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Custom Reference Material Request Form

Domestic Customers

FAX#: (814) 355-2895
email: standards@restekcorp.com

International Customers

**Contact Your Local
Restek Representative.**

Name: _____

Date: _____

Company/Location: _____

Phone #: _____ **FAX #:** _____

E-mail: _____

Take these eight steps to create the right solution:

1. Mixture Description: _____
2. Solvent: _____
3. Number of components: _____
4. Volume (select): 1mL, 2mL, 5mL, 10mL, or other mL _____
5. Quantity: Number of units _____

6. Select testing and documentation that best meets your requirements:

- Gravimetric Documentation: Lot Sheet with balance printout attached.
- Qualitative Documentation: Certificate of Composition, Chromatogram, and Gravimetric Documentation.
- Quantitative Documentation: Certificate of Analysis and Data Pack.

7. Compound(s)

Compound(s): (list or attach sheet)	Concentration:
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	

8. Concentration Units

- mg/mL µg/mL ng/mL vol./vol.% wt./wt.% other _____

ALL mixtures are produced in accordance with our ISO 9001 registration. Analytical balances are calibrated daily at seven mass levels using NIST-traceable weights. ALL raw materials used are a minimum of 97% pure unless otherwise specified.

on-line: <http://www.restekcorp.com/stdreq.htm>

Lit. Cat. # 59382B



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