



**Lipomed**  
SERVICES TO HEALTH

Analytical Reference Standards

2023/05

# » ALCOHOL & ETHANOL BIOMARKERS



The use of ethanol biomarkers such as Ethylglucuronide (EtG) and Ethylsulfate (EtS) has expanded greatly over the past few years. Both EtG and EtS are sensitive and specific biomarkers for alcohol consumption providing intermediate detection window between short and long term markers.

For EtG- and EtS-testing, LIPOMED provides native and deuterated reference standards supplied as calibrated solutions in methanol and in standard pack sizes of 10 mg, 50 mg and 100 mg.

For more information, please check our website  
[www.lipomed-usa.com](http://www.lipomed-usa.com).

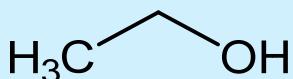
Are you also looking for  
Aqueous Ethanol Standards?

- » Currently available from LIPOMED: NIST-traceable Ethanol standards supplied in concentrations ranging from 10 mg/dL to 700 mg/dL.
- » Available in 1.2 mL ampoules
- » Supplied as calibrated standard solutions in water.

<p><b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b></p>	<p><b>Alcohol Mixture 4</b></p>	MIX-1808-0.1LH      0.1 mg/1 ml of each component	calibrated solution in water
<p><b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b></p>	<p><b>Alcohol Mixture 4</b></p>	MIX-1808-0.2LH      0.2 mg/1 ml of each component	calibrated solution in water
<p><b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b></p>	<p><b>Alcohol Mixture 4</b></p>	MIX-1808-0.3LH      0.3 mg/1 ml of each component	calibrated solution in water
<p><b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b></p>	<p><b>Alcohol Mixture 4</b></p>	MIX-1808-0.4LH      0.4 mg/1 ml of each component	calibrated solution in water

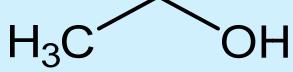
<b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b>	<b>Alcohol Mixture 4</b> MIX-1808-0.5LH      0.5 mg/1 ml of each component      calibrated solution in water
<b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b>	<b>Alcohol Mixture 4</b> MIX-1808-1LH      1.0 mg/1 ml of each component      calibrated solution in water
<b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b>	<b>Alcohol Mixture 4</b> MIX-1808-2LH      2.0 mg/1 ml of each component      calibrated solution in water
<b>Acetone</b> <b>Ethanol</b> <b>Isopropanol</b> <b>Methanol</b>	<b>Alcohol Mixture 4</b> MIX-1808-4LH      4.0 mg/1 ml of each component      calibrated solution in water

Acetone  
Ethanol  
Isopropanol  
Methanol



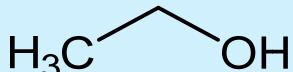
**Alcohol Mixture 4**

MIX-1808-5LH	5.0 mg/1 ml of each component	calibrated solution in water
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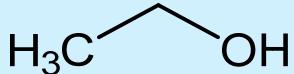
**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules		
$\text{C}_2\text{H}_5\text{O}$	M.W.: 46.07	
ETH-010-1ML	10 mg Ethanol/1 dl	calibrated solution in water
ETH-010-1ML-5AMP		1 pack of 5 ampoules
ETH-010-1ML-10AMP		1 pack of 10 ampoules
ETH-010-1ML-50AMP		1 pack of 50 ampoules



**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules		
$\text{C}_2\text{H}_5\text{O}$	M.W.: 46.07	
ETH-015-1ML	15 mg Ethanol/1 dl	calibrated solution in water
ETH-015-1ML-5AMP		1 pack of 5 ampoules
ETH-015-1ML-10AMP		1 pack of 10 ampoules
ETH-015-1ML-50AMP		1 pack of 50 ampoules

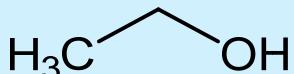


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

$\text{C}_2\text{H}_5\text{O}$  M.W.: 46.07

ETH-025-1ML	25 mg Ethanol/1 dl	calibrated solution in water
ETH-025-1ML-5AMP		1 pack of 5 ampoules
ETH-025-1ML-10AMP		1 pack of 10 ampoules
ETH-025-1ML-50AMP		1 pack of 50 ampoules

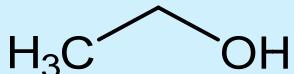


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

$\text{C}_2\text{H}_5\text{O}$  M.W.: 46.07

ETH-040-1ML	40 mg Ethanol/1 dl	calibrated solution in water
ETH-040-1ML-5AMP		1 pack of 5 ampoules
ETH-040-1ML-10AMP		1 pack of 10 ampoules
ETH-040-1ML-50AMP		1 pack of 50 ampoules

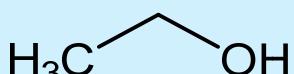


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

$\text{C}_2\text{H}_5\text{O}$  M.W.: 46.07

ETH-050-1ML	50 mg Ethanol/1 dl	calibrated solution in water
ETH-050-1ML-5AMP		1 pack of 5 ampoules
ETH-050-1ML-10AMP		1 pack of 10 ampoules
ETH-050-1ML-50AMP		1 pack of 50 ampoules

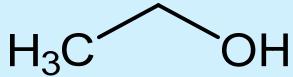


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

$\text{C}_2\text{H}_5\text{O}$  M.W.: 46.07

ETH-070-1ML	70 mg Ethanol/1 dl	calibrated solution in water
ETH-070-1ML-5AMP		1 pack of 5 ampoules
ETH-070-1ML-10AMP		1 pack of 10 ampoules
ETH-070-1ML-50AMP		1 pack of 50 ampoules

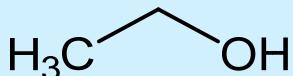


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O                    M.W.: 46.07

ETH-080-1ML	80 mg Ethanol/1 dl	calibrated solution in water
ETH-080-1ML-5AMP		1 pack of 5 ampoules
ETH-080-1ML-10AMP		1 pack of 10 ampoules
ETH-080-1ML-50AMP		1 pack of 50 ampoules

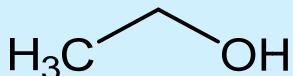


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O                    M.W.: 46.07

ETH-090-1ML	90 mg Ethanol/1 dl	calibrated solution in water
ETH-090-1ML-5AMP		1 pack of 5 ampoules
ETH-090-1ML-10AMP		1 pack of 10 ampoules
ETH-090-1ML-50AMP		1 pack of 50 ampoules

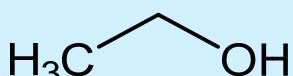


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O                    M.W.: 46.07

ETH-100-1ML	100 mg Ethanol/1 dl	calibrated solution in water
ETH-100-1ML-5AMP		1 pack of 5 ampoules
ETH-100-1ML-10AMP		1 pack of 10 ampoules
ETH-100-1ML-50AMP		1 pack of 50 ampoules

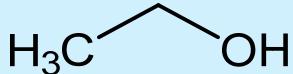


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O                    M.W.: 46.07

ETH-125-1ML	125 mg Ethanol/1 dl	calibrated solution in water
ETH-125-1ML-5AMP		1 pack of 5 ampoules
ETH-125-1ML-10AMP		1 pack of 10 ampoules
ETH-125-1ML-50AMP		1 pack of 50 ampoules

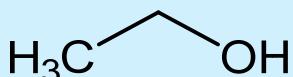


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-150-1ML	150 mg Ethanol/1 dl	calibrated solution in water
ETH-150-1ML-5AMP		1 pack of 5 ampoules
ETH-150-1ML-10AMP		1 pack of 10 ampoules
ETH-150-1ML-50AMP		1 pack of 50 ampoules

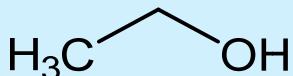


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-160-1ML	160 mg Ethanol/1 dl	calibrated solution in water
ETH-160-1ML-5AMP		1 pack of 5 ampoules
ETH-160-1ML-10AMP		1 pack of 10 ampoules
ETH-160-1ML-50AMP		1 pack of 50 ampoules

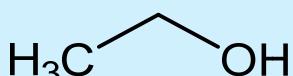


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-170-1ML	170 mg Ethanol/1 dl	calibrated solution in water
ETH-170-1ML-5AMP		1 pack of 5 ampoules
ETH-170-1ML-10AMP		1 pack of 10 ampoules
ETH-170-1ML-50AMP		1 pack of 50 ampoules

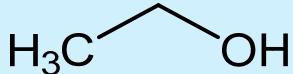


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-200-1ML	200 mg Ethanol/1 dl	calibrated solution in water
ETH-200-1ML-5AMP		1 pack of 5 ampoules
ETH-200-1ML-10AMP		1 pack of 10 ampoules
ETH-200-1ML-50AMP		1 pack of 50 ampoules

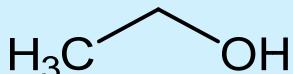


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-250-1ML	250 mg Ethanol/1 dl	calibrated solution in water
ETH-250-1ML-5AMP		1 pack of 5 ampoules
ETH-250-1ML-10AMP		1 pack of 10 ampoules
ETH-250-1ML-50AMP		1 pack of 50 ampoules

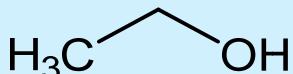


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-300-1ML	300 mg Ethanol/1 dl	calibrated solution in water
ETH-300-1ML-5AMP		1 pack of 5 ampoules
ETH-300-1ML-10AMP		1 pack of 10 ampoules
ETH-300-1ML-50AMP		1 pack of 50 ampoules

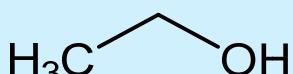


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-400-1ML	400 mg Ethanol/1 dl	calibrated solution in water
ETH-400-1ML-5AMP		1 pack of 5 ampoules
ETH-400-1ML-10AMP		1 pack of 10 ampoules
ETH-400-1ML-50AMP		1 pack of 50 ampoules

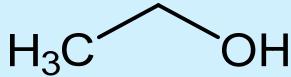


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

C<sub>2</sub>H<sub>6</sub>O      M.W.: 46.07

ETH-500-1ML	500 mg Ethanol/1 dl	calibrated solution in water
ETH-500-1ML-5AMP		1 pack of 5 ampoules
ETH-500-1ML-10AMP		1 pack of 10 ampoules
ETH-500-1ML-50AMP		1 pack of 50 ampoules

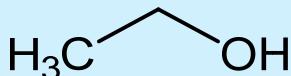


**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

$\text{C}_2\text{H}_6\text{O}$  M.W.: 46.07

ETH-600-1ML	600 mg Ethanol/1 dl	calibrated solution in water
ETH-600-1ML-5AMP		1 pack of 5 ampoules
ETH-600-1ML-10AMP		1 pack of 10 ampoules
ETH-600-1ML-50AMP		1 pack of 50 ampoules



**Aqueous Ethanol Standard Solutions (1.2 ml Ampoules)**

Packs of 5, 10, 50 ampoules

$\text{C}_2\text{H}_6\text{O}$  M.W.: 46.07

ETH-700-1ML	700 mg Ethanol/1 dl	calibrated solution in water
ETH-700-1ML-5AMP		1 pack of 5 ampoules
ETH-700-1ML-10AMP		1 pack of 10 ampoules
ETH-700-1ML-50AMP		1 pack of 50 ampoules



**Ethyl- $\beta$ -D-glucuronide (shipment under ice for solution)**

$\text{C}_8\text{H}_{14}\text{O}_7$  M.W.: 222.19

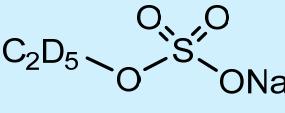
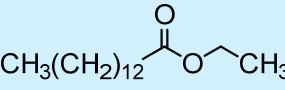
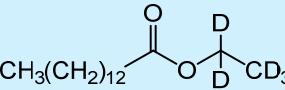
EGL-332-1LM	1.0 mg/1 ml	calibrated solution in methanol
EGL-332-10	10 mg	powder
EGL-332-50	50 mg	powder
EGL-332-100	100 mg	powder



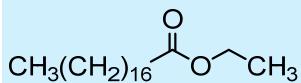
**Ethyl- $\beta$ -D-glucuronide-D<sub>5</sub> (shipment under ice for solutions)**

$\text{C}_8\text{H}_9\text{D}_5\text{O}_7$  M.W.: 227.22

EGL-780-0.1LM	0.1 mg/1 ml	calibrated solution in methanol
EGL-780-1LM	1.0 mg/1 ml	calibrated solution in methanol
EGL-780-1LM-5	5 mg/5 ml	calibrated solution in methanol
EGL-780-10	10 mg	powder
EGL-780-50	50 mg	powder
EGL-780-100	100 mg	powder

	<b>Ethylsulfate-D<sub>5</sub>.sodium salt</b> $C_2D_5NaO_4S$ M.W.: 153.14 <table border="0"> <tr> <td>ETS-979-NA-0.1LM</td> <td>0.1 mg Na salt/1 ml</td> <td>calibrated solution in methanol</td> </tr> <tr> <td>ETS-979-NA-1LM</td> <td>1.0 mg Na salt/1 ml</td> <td>calibrated solution in methanol</td> </tr> <tr> <td>ETS-979-NA-1LM-5</td> <td>5 mg Na salt/5 ml</td> <td>calibrated solution in methanol</td> </tr> <tr> <td>ETS-979-NA-10</td> <td>10 mg</td> <td>powder</td> </tr> <tr> <td>ETS-979-NA-50</td> <td>50 mg</td> <td>powder</td> </tr> <tr> <td>ETS-979-NA-100</td> <td>100 mg</td> <td>powder</td> </tr> </table>			ETS-979-NA-0.1LM	0.1 mg Na salt/1 ml	calibrated solution in methanol	ETS-979-NA-1LM	1.0 mg Na salt/1 ml	calibrated solution in methanol	ETS-979-NA-1LM-5	5 mg Na salt/5 ml	calibrated solution in methanol	ETS-979-NA-10	10 mg	powder	ETS-979-NA-50	50 mg	powder	ETS-979-NA-100	100 mg	powder
ETS-979-NA-0.1LM	0.1 mg Na salt/1 ml	calibrated solution in methanol																			
ETS-979-NA-1LM	1.0 mg Na salt/1 ml	calibrated solution in methanol																			
ETS-979-NA-1LM-5	5 mg Na salt/5 ml	calibrated solution in methanol																			
ETS-979-NA-10	10 mg	powder																			
ETS-979-NA-50	50 mg	powder																			
ETS-979-NA-100	100 mg	powder																			
	<b>Ethyl Myristate</b> Synonym(s): Ethyl tetradecanoate $C_{16}H_{32}O_2$ M.W.: 256.42 <table border="0"> <tr> <td>FAE-1453-1LA</td> <td>1.0 mg/1 ml</td> <td>calibrated solution in acetonitrile</td> </tr> </table>			FAE-1453-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile															
FAE-1453-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile																			
	<b>Ethyl Myristate-D<sub>5</sub></b> Synonym(s): Ethyl tetradecanoate-D <sub>5</sub> $C_{16}H_{27}D_5O_2$ M.W.: 261.45 <table border="0"> <tr> <td>FAE-1697-1LA</td> <td>1.0 mg/1 ml</td> <td>calibrated solution in acetonitrile</td> </tr> <tr> <td>FAE-1697-10</td> <td>10 mg</td> <td>colorless liquid</td> </tr> <tr> <td>FAE-1697-50</td> <td>50 mg</td> <td>colorless liquid</td> </tr> <tr> <td>FAE-1697-100</td> <td>100 mg</td> <td>colorless liquid</td> </tr> </table>			FAE-1697-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile	FAE-1697-10	10 mg	colorless liquid	FAE-1697-50	50 mg	colorless liquid	FAE-1697-100	100 mg	colorless liquid						
FAE-1697-1LA	1.0 mg/1 ml	calibrated solution in acetonitrile																			
FAE-1697-10	10 mg	colorless liquid																			
FAE-1697-50	50 mg	colorless liquid																			
FAE-1697-100	100 mg	colorless liquid																			

<chem>CH3(CH2)7=CC(C)C(OCC)C(=O)OCC</chem>	<b>Ethyl Oleate</b> Synonym(s): Ethyl (cis)-octadec-9-enoate $C_{20}H_{38}O_2$ M.W.: 310.52 FAE-1452-1LA 1.0 mg/1 ml calibrated solution in acetonitrile		
<chem>CH3(CH2)7=CC(C)C(OCCD)C(=O)OCCD</chem>	<b>Ethyl Oleate-D<sub>5</sub></b> Synonym(s): Ethyl (cis)-octadec-9-enoate-D5 $C_{16}H_{33}D_5O_2$ M.W.: 315.55 FAE-1696-1LA 1.0 mg/1 ml calibrated solution in acetonitrile FAE-1696-10 10 mg colorless liquid FAE-1696-50 50 mg colorless liquid FAE-1696-100 100 mg colorless liquid		
<chem>CH3(CH2)14C(=O)OCC</chem>	<b>Ethyl Palmitate</b> Synonym(s): Ethyl hexadecanoate $C_{18}H_{36}O_2$ M.W.: 284.48 FAE-1451-1LA 1.0 mg/1 ml calibrated solution in acetonitrile		
<chem>CH3(CH2)14C(=O)OCCD</chem>	<b>Ethyl Palmitate-D<sub>5</sub></b> Synonym(s): Ethyl hexadecanoate-D <sub>5</sub> $C_{18}H_{31}D_5O_2$ M.W.: 289.51 FAE-1695-1LA 1.0 mg/1 ml calibrated solution in acetonitrile FAE-1695-10 10 mg colorless liquid FAE-1695-50 50 mg colorless liquid FAE-1695-100 100 mg colorless liquid		

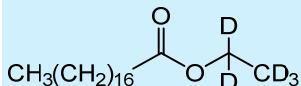


### Ethyl Stearate

Synonym(s): Ethyl octadecanoate  
 $\text{C}_{20}\text{H}_{40}\text{O}_2$  M.W.: 312.53

FAE-1454-1LA 1.0 mg/1 ml

calibrated solution in acetonitrile



### Ethyl Stearate-D<sub>5</sub>

Synonym(s): Ethyl octadecanoate-D<sub>5</sub>  
 $\text{C}_{20}\text{H}_{35}\text{D}_5\text{O}_2$  M.W.: 317.56

FAE-1698-1LA 1.0 mg/1 ml

calibrated solution in acetonitrile

FAE-1698-10 10 mg

powder

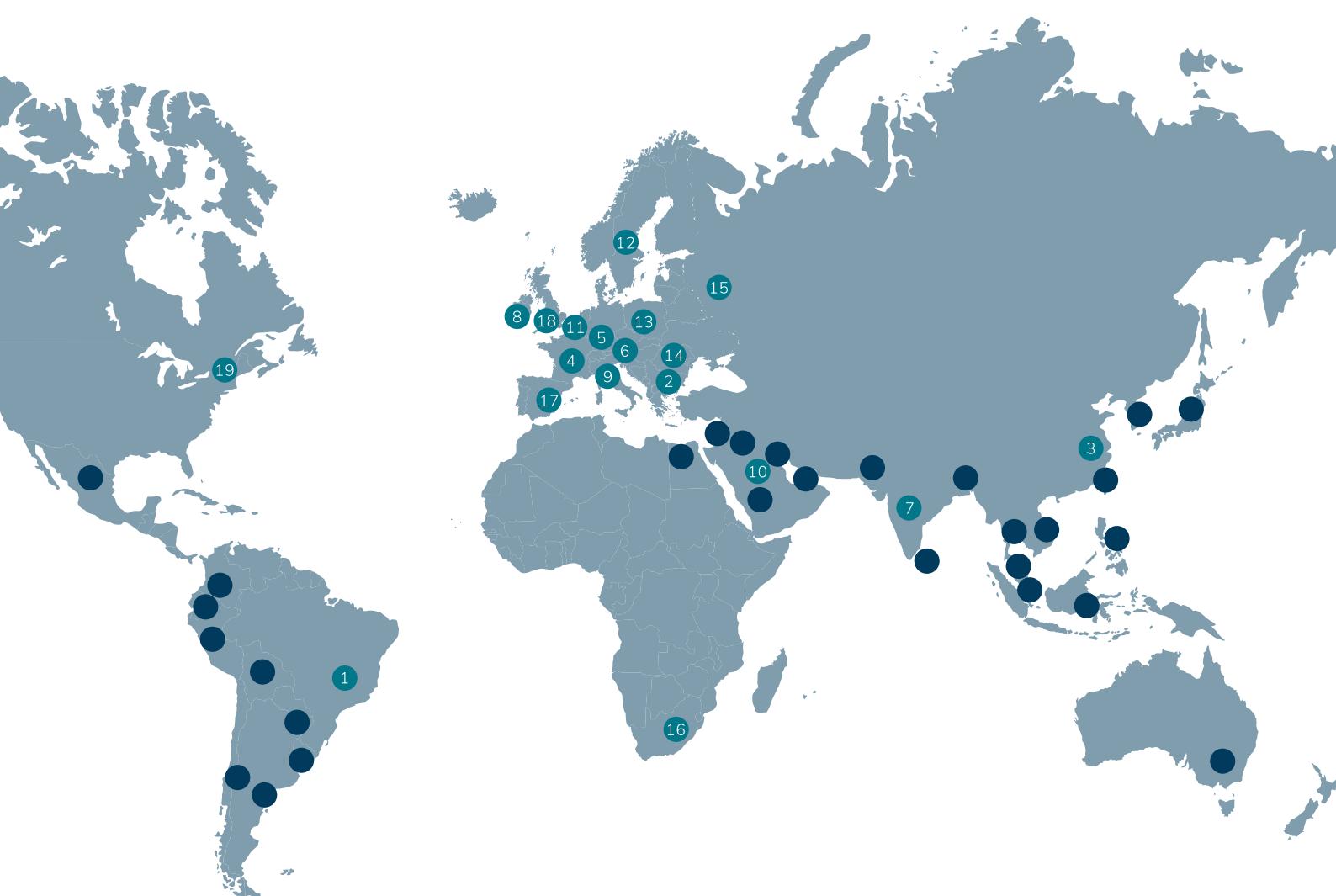
FAE-1698-50 50 mg

powder

FAE-1698-100 100 mg

powder

# LGC worldwide



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