

Analytical Reference Standards



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-shop.com.

Are you also looking for Aqueous Ethanol Standards?

- Currently available from LIPOMED: NISTtraceable 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.

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



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



| Acetone Ethanol Isopropanol Methanol | Alcohol Mixture 4 | 5.0 mg/1 ml of each component | calibrated solution in water |
|---|---|---|--|
| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H6O ETH-010-1ML ETH-010-1ML-5AMP ETH-010-1ML-5AMP ETH-010-1ML-5AMP ETH-010-1ML-5AMP | andard Solutions (1.2 oules M.W.: 46.07 10 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H60 ETH-015-1ML ETH-015-1ML-5AMP ETH-015-1ML-5AMP ETH-015-1ML-5AMP ETH-015-1ML-5AMP | tandard Solutions (1.2 houles M.W.: 46.07 15 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| H ₃ C OH | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H6O ETH-020-1ML ETH-020-1ML-5AMP ETH-020-1ML-5AMP ETH-020-1ML-5AMP | andard Solutions (1.2 oules M.W.: 46.07 20 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |



| Н₃С́ОН | Aqueous Ethanol S Packs of 5, 10, 50 amp C ₂ H ₆ O ETH-025-1ML ETH-025-1ML-5AMP ETH-025-1ML-10AMP ETH-025-1ML-50AMP | tandard Solutions (1.2 poules M.W.: 46.07 25 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
|---------------------|---|---|--|
| H ₃ C OH | Aqueous Ethanol S Packs of 5, 10, 50 amp C ₂ H ₆ O ETH-040-1ML ETH-040-1ML-5AMP ETH-040-1ML-10AMP ETH-040-1ML-50AMP | tandard Solutions (1.2 boules M.W.: 46.07 40 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| Н₃С́ОН | Aqueous Ethanol S Packs of 5, 10, 50 amp C2H60 ETH-050-1ML ETH-050-1ML-5AMP ETH-050-1ML-10AMP ETH-050-1ML-50AMP | tandard Solutions (1.2 poules M.W.: 46.07 50 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| H ₃ C OH | Aqueous Ethanol S Packs of 5, 10, 50 amp C2H6O ETH-070-1ML ETH-070-1ML-5AMP ETH-070-1ML-5AMP ETH-070-1ML-5AMP | andard Solutions (1.2 poules M.W.: 46.07 70 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |



| Н₃С́ОН | Aqueous Ethanol Sta Packs of 5, 10, 50 ampa C2H0 ETH-080-1ML ETH-080-1ML-5AMP ETH-080-1ML-5AMP ETH-080-1ML-5AMP ETH-080-1ML-5AMP | andard Solutions (1.2 r pules M.W.: 46.07 80 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
|---------------------|--|--|--|
| Н₃С́ОН | Aqueous Ethanol Sta Packs of 5, 10, 50 ampo C₂H₀O ETH-090-1ML ETH-090-1ML-5AMP ETH-090-1ML-10AMP ETH-090-1ML-50AMP | andard Solutions (1.2 r ^{Dules} M.W.: 46.07 90 mg Ethanol/1 dl | calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| H₃C ́OH | Aqueous Ethanol Sta Packs of 5, 10, 50 amp C2H ₀ O ETH-100-1ML ETH-100-1ML-5AMP ETH-100-1ML-10AMP ETH-100-1ML-50AMP | andard Solutions (1.2 r pules M.W.: 46.07 100 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| H ₃ C OH | Aqueous Ethanol Sta Packs of 5, 10, 50 ampo C ₂ H ₆ O ETH-125-1ML ETH-125-1ML-5AMP ETH-125-1ML-50AMP ETH-125-1ML-50AMP | andard Solutions (1.2 r bules M.W.: 46.07 125 mg Ethanol/1 dl | calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |



| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H6O ETH-150-1ML ETH-150-1ML-5AMP ETH-150-1ML-10AMP ETH-150-1ML-50AMP | tandard Solutions (1.2 poules M.W.: 46.07 150 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
|---------------------|---|--|--|
| H ₃ C OH | Aqueous Ethanol Si Packs of 5, 10, 50 amp C₂H₀O ETH-160-1ML ETH-160-1ML-5AMP ETH-160-1ML-5AMP ETH-160-1ML-5AMP ETH-160-1ML-5AMP | tandard Solutions (1.2 poules M.W.: 46.07 160 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C_2H_6O ETH-170-1ML ETH-170-1ML-5AMP ETH-170-1ML-10AMP ETH-170-1ML-50AMP | tandard Solutions (1.2) poules M.W.: 46.07 170 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| H ₃ C OH | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H6O ETH-200-1ML ETH-200-1ML-5AMP ETH-200-1ML-5AMP ETH-200-1ML-5AMP | tandard Solutions (1.2 f poules M.W.: 46.07 200 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |



| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C ₂ H ₆ O ETH-250-1ML ETH-250-1ML-5AMP ETH-250-1ML-10AMP ETH-250-1ML-50AMP | andard Solutions (1.2 poules M.W.: 46.07 250 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
|---------------------|--|---|--|
| H₃C OH | Aqueous Ethanol St Packs of 5, 10, 50 amp C ₂ H ₆ O ETH-300-1ML ETH-300-1ML-5AMP ETH-300-1ML-10AMP ETH-300-1ML-50AMP | andard Solutions (1.2 oules M.W.: 46.07 300 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H_0 ETH-400-1ML ETH-400-1ML-5AMP ETH-400-1ML-50AMP ETH-400-1ML-50AMP | andard Solutions (1.2) oules M.W.: 46.07 400 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| H ₃ C OH | Aqueous Ethanol St Packs of 5, 10, 50 amp C2H6O ETH-500-1ML ETH-500-1ML-5AMP ETH-500-1ML-10AMP ETH-500-1ML-50AMP | andard Solutions (1.2 oules M.W.: 46.07 500 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |



| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C₂H₀O ETH-600-1ML ETH-600-1ML-5AMP ETH-600-1ML-10AMP ETH-600-1ML-50AMP | andard Solutions (1.2) oules M.W.: 46.07 600 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
|---|---|--|---|
| Н₃С́ОН | Aqueous Ethanol St Packs of 5, 10, 50 amp C₂H₀O ETH-700-1ML ETH-700-1ML-5AMP ETH-700-1ML-5AMP ETH-700-1ML-5AMP ETH-700-1ML-5AMP | andard Solutions (1.2) oules M.W.: 46.07 700 mg Ethanol/1 dl | ml Ampoules) calibrated solution in water 1 pack of 5 ampoules 1 pack of 10 ampoules 1 pack of 50 ampoules |
| | Ethyl-β-D-glucuronia C ₈ H ₁₄ O ₇ EGL-332-1LM EGL-332-10 EGL-332-50 EGL-332-100 | de (shipment under ice M.W.: 222.19 1.0 mg/1 ml 10 mg 50 mg 100 mg | e for solution) calibrated solution in methanol powder powder powder |
| $HO_{HO_{1}}O_{HO_{1}}O_{HO_{2}}O_{C_{2}}D_{5}$ | Ethyl-β-D-glucuronia $C_8H_9D_5O_7$ EGL-780-0.1LM EGL-780-1LM EGL-780-1LM-5 EGL-780-10 EGL-780-50 EGL-780-100 | de-D₅ (shipment under M.W.: 227.22 0.1 mg/1 ml 1.0 mg/1 ml 5 mg/5 ml 10 mg 50 mg 100 mg | r ice for solutions) calibrated solution in methanol calibrated solution in methanol calibrated solution in methanol powder powder powder |



| | Ethylsulfate.sodium | | |
|--|---|---------------------|-------------------------------------|
| | $C_2H_5NaO_4S$ | M.W.: 148.11 | |
| 0 0 | ETS-972-NA-1LM | 1.0 mg Na salt/1 ml | calibrated solution in methanol |
| | | 10 mg | powder |
| S' | ETS-972-NA-10 ETS-972-NA-50 | 10 mg 50 mg | powder powder |
| O ONa | ETS-972-NA-100 | 100 mg | powder |
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| | Ethylsulfate-D ₅ .sod | | |
| | C2D5NaO4S | M.W.: 153.14 | |
| 0 0 | ETS-979-NA-0.1LM | 0.1 mg Na salt/1 ml | calibrated solution in methanol |
| C_2D_5 | ETS-979-NA-1LM | 1.0 mg Na salt/1 ml | calibrated solution in methanol |
| $C_2 D_5 $ | 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 |
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| | Ethyl Myristate Synonym(s): Ethyl tetradecanoate | | |
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| CH ₃ (CH ₂) ₁₂ O CH ₃ | $C_{16}H_{32}O_2$ | M.W.: 256.42 | |
| $CH_3(CH_2)_{12} O CH_3$ | | | |
| | FAE-1453-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
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| | Ethyl Myristate-D₅ | | |
| 0 5 | Synonym(s): Ethyl tetra | decanoate-D₅ | |
| L L | $C_{16}H_{27}D_5O_2$ | M.W.: 261.45 | |
| $CH_{3}(CH_{2})_{12}$ O D CD ₃ | 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 |
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| | Ethyl Oleate | | |
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| О СH ₃ (CH ₂) ₇ (CH ₂) ₇ О́СH ₃ | Synonym(s): Ethyl (cis C ₂₀ H ₃₈ O ₂ |)-octadec-9-enoate M.W.: 310.52 | |
| CH ₃ (CH ₂) ₇ (CH ₂) ₇ O CH ₃ | FAE-1452-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
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| | Ethyl Oleate-D ₅ |)-octadec-9-enoate-D5 | |
| | $C_{16}H_{33}D_5O_2$ | M.W.: 315.55 | |
| $CH_3(CH_2)_7 (CH_2)_7 O_D CD_3$ | FAE-1696-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| | FAE-1696-10 FAE-1696-50 | 10 mg 50 mg | colorless liquid colorless liquid |
| | FAE-1696-100 | 100 mg | colorless liquid |
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| | Ethyl Palmitate | | |
| | Synonym(s): Ethyl hex C ₁₈ H ₃₆ O ₂ | adecanoate M.W.: 284.48 | |
| 0 | FAE-1451-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| CH ₃ (CH ₂) ₁₄ O CH ₃ | | | |
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| | Ethyl Palmitate-D | | |
| | Synonym(s): Ethyl hex $C_{18}H_{31}D_5O_2$ | adecanoate-D₅ M.W.: 289.51 | |
| O D | FAE-1695-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| $CH_3(CH_2)_{14}$ O D CD ₃ | FAE-1695-10 | 10 mg | colorless liquid |
| | FAE-1695-50 FAE-1695-100 | 50 mg 100 mg | colorless liquid colorless liquid |
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| | Ethyl Stearate | | |
|---|---|---|-------------------------------------|
| | Synonym(s): Ethyl octo $C_{20}H_{40}O_2$ | adecanoate M.W.: 312.53 | |
| О СН ₃ (СН ₂) ₁₆ ^Щ О ^С СН ₃ | FAE-1454-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| | | | |
| | Ethyl Stearate-D $_{5}$ | | |
| | Synonym(s): Ethyl octo C ₂₀ H ₃₅ D ₅ O ₂ | adecanoate-D ₅ M.W.: 317.56 | |
| O D | FAE-1698-1LA | 1.0 mg/1 ml | calibrated solution in acetonitrile |
| $CH_3(CH_2)_{16}$ O D CD_3 | FAE-1698-10 | 10 mg | powder |
| | FAE-1698-50 | 50 mg | powder |
| | FAE-1698-100 | 100 mg | powder |
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| CH ₃ (CH ₂) ₁₆ O D CD ₃ | | | • |

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LIPOMED MAIL/FAX Quotation & Order Form

| Contact Info | rmation | |
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| Bill to | | Ship to (if different from invoicing address) |
| Customer/Company | | Customer/Company |
| Department | | Department |
| | | |
| Address | | Address |
| Contact Person | | Contact Person |
| City, ZIP | | City, ZIP |
| State, Country | | State, Country |
| Phone | | Phone |
| Fax | | Fax |
| E-Mail Address | | E-Mail Address |
| No of pages (incl. this one) | | Customer Account # |
| Date of Request | | Purchase Order |
| Special instructions/ | Notes | |
| Product List | | |
| Article-No. | Product Name | Qty Unit Price Total Price |
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Ordering & other information

LIPOMED is a private Swiss Health Care Company. We are one of the leading companies for Analytical Reference Standards worldwide and specialized in the research, development and manufacturing of ethical pharmaceuticals and products for the treatment of rare diseases.

Since 1993 LIPOMED is dedicated to providing products and services of outstanding quality and expertise. We have our own GMP/GDP and ISO 9001 certified pharmaceutical production facilities in Arlesheim, near Basel. We are also ISO/IEC17025 accredited for testing of Analytical Reference Standards and ISO17034 accredited for the production of Reference Material.

Our innovative products are marketed and distributed with offices and partners in more than 50 countries around the world.

LIPOMED's Analytical Reference Standards currently include the following classes of substances, their deuterated analogues and metabolites, such as Glucuronides and Sulfates:

- » Alcohol & Ethanol Biomarkers
- » Amphetamines & Sympathomimetic amines
- > Antidepressants
- Antipsychotics
- >> Barbiturates
- >>> Benzodiazepines
- Cannabinoids

- >> Cathinones
- >> Cocaines
- >> Custom Mixtures
- >> Hallucinogens
- >> Opioids
- >> Other CNS Depressants
- >>> Steroids

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For more information about LIPOMED's Analytical Reference Standards, please visit our website www.lipomed-shop.com.







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