



2023/06



PHYTO CANNABINOIDS

Cannabis sativa / Marijuana / Hemp products are the most widely trafficked drugs worldwide, accounting for more than a half of all global seizure cases. However, the global movement for cannabis legalization has led to a growing public interest in the scientific research and development of CANNABINOIDS for use in medical treatments, alternative medicine, cosmetics, and food & beverages additives.

As a result, the increasing open sale of cannabis products and its changing commercial status in many countries worldwide requires control of the concentration of this group of substances and supporting analytical testing to ensure consumer safety and regulatory compliance.

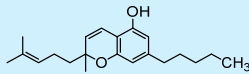
So far over 100 naturally occurring CANNABINOIDS have been discovered, among them the main psychoactive component, Tetrahydrocannabinol (THC, usually (-)-trans- Δ^9 -tetrahydrocannabinol), and the principal cannabinoid, Cannabidiol (CBD).

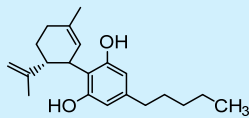
Utilizing high-quality certified reference materials for critical examinations is an important principle that increases the safety and reliability of quality control.

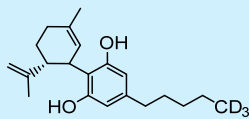
LIPOMED supplies your laboratory with a broad range of CANNABINOIDS, including their metabolites and deuterated forms for analytical purposes in laboratories such as toxicology, forensic, police, custom, cosmetics, food and beverage control, and crop plant testing.

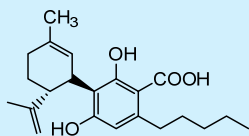
Lipomed's diverse portfolio of products consists of various Phytocannabinoids and synthetic cannabinoids and their metabolites manufactured under ISO 17034 guidelines and developed in-house at our Swiss Facility to meet your testing needs. Our reference standards are available to you as ready-to-use solutions and as bulk powders.

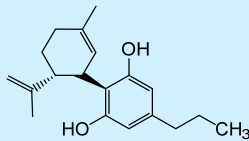
For more information, please visit our website www.lipomed-shop.com or contact us directly.

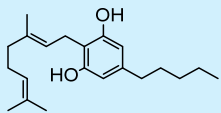
| Cannabichromene | | | | |
|---|--------------------|-------------------|-------------|---------------------------------|
|  | Synonym(s): CBC | | | |
| | Molecular Formula | $C_{21}H_{30}O_2$ | CAS Number | 20675-51-8 |
| | Molecular Weight | 314.47 | DEA Number | 7350 CI |
| | THC-1835-1LM | | 1.0 mg/1 mL | calibrated solution in methanol |
| | Status CH DE FR | | | |

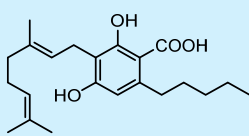
| Cannabidiol (shipment under ice for solution) | | | | |
|---|-------------------------------------|--------|-------------|---------------------------------|
|  | Molecular Formula $C_{21}H_{30}O_2$ | | | |
| | Molecular Weight | 314.47 | CAS Number | 13956-29-1 |
| | THC-303-1LM | | 1.0 mg/1 mL | calibrated solution in methanol |
| | THC-303-10 | | 10 mg | powder |
| | THC-303-50 | | 50 mg | powder |
| | THC-303-100 | | 100 mg | powder |
| | Status CH DE FR | | | |

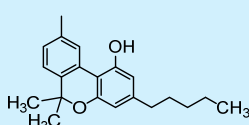
| Cannabidiol-D ₃ (shipment under ice for solutions) | | | | |
|---|--|--------|-------------|---------------------------------|
|  | Molecular Formula $C_{21}H_{27}D_3O_2$ | | | |
| | Molecular Weight | 317.47 | CAS Number | N/A |
| | THC-1570-0.1LM | | 0.1 mg/1 mL | calibrated solution in methanol |
| | THC-1570-1LM | | 1.0 mg/1 mL | calibrated solution in methanol |
| | THC-1570-10 | | 10 mg | powder |
| | THC-1570-50 | | 50 mg | powder |
| | THC-1570-100 | | 100 mg | powder |
| | Status CH DE FR | | | |

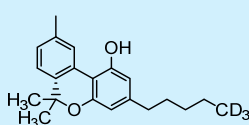
| Cannabidiolic Acid (shipment under ice) | | | | |
|---|--------------------|-------------------|-------------|-------------------------------------|
|  | Synonym(s): CBDA | | | |
| | Molecular Formula | $C_{22}H_{30}O_4$ | CAS Number | 1244-58-2 |
| | Molecular Weight | 358.47 | DEA Number | 7360 CI |
| | CBD-1735-1LA | | 1.0 mg/1 mL | calibrated solution in acetonitrile |
| | CBD-1735-10 | | 10 mg | powder |
| | CBD-1735-50 | | 50 mg | powder |
| | CBD-1735-100 | | 100 mg | powder |
| | Status CH DE FR | | | |


| Cannabidivarin (shipment under ice for solution) | | | | |
|---|--------------------|-------------------|-------------|--------------------------------|
|  | Synonym(s): CBDV | | | |
| | Molecular Formula | $C_{19}H_{26}O_2$ | CAS Number | 24274-48-4 |
| | Molecular Weight | 286.41 | DEA Number | N/A |
| | THC-1834-1LE | | 1.0 mg/1 mL | calibrated solution in ethanol |
| | THC-1834-10 | | 10 mg | powder |
| | THC-1834-50 | | 50 mg | powder |
| | THC-1834-100 | | 100 mg | powder |
| | Status CH DE FR | | | |

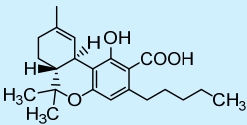
| Cannabigerol | | | | |
|---|-------------------|-------------------|--------------------------------|----------|
|  | Synonym(s): CBG | | | |
| | Molecular Formula | $C_{21}H_{32}O_2$ | CAS Number 25654-31-3 | Status |
| | Molecular Weight | 316.48 | DEA Number N/A | CH DE FR |
| | CBG-743-1LE | 1.0 mg/1 mL | calibrated solution in ethanol | |
| | CBG-743-10 | 10 mg | powder | |
| | CBG-743-50 | 50 mg | powder | |
| | CBG-743-100 | 100 mg | powder | |

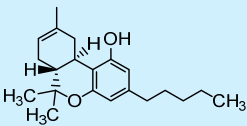
| Cannabigerolic acid | | | | |
|---|-------------------|-------------------|-----------------------|----------|
|  | Synonym(s): CBGA | | | |
| | Molecular Formula | $C_{22}H_{32}O_4$ | CAS Number 25555-57-1 | Status |
| | Molecular Weight | 360.49 | DEA Number N/A | CH DE FR |
| | CBG-1924-10 | 10 mg | powder | |
| | CBG-1924-50 | 50 mg | powder | |
| | CBG-1924-100 | 100 mg | powder | |

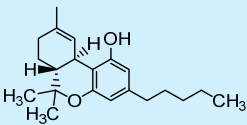
| Cannabinol | | | | |
|---|-------------------|-------------------|---------------------------------|----------|
|  | Molecular Formula | $C_{21}H_{26}O_2$ | CAS Number 521-35-7 | Status |
| | Molecular Weight | 310.44 | DEA Number 7360 CI | CH DE FR |
| | THC-377-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-377-10 | 10 mg | powder | |
| | THC-377-50 | 50 mg | powder | |
| | THC-377-100 | 100 mg | powder | |

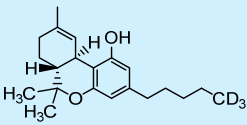
| Cannabinol-D ₃ | | | | |
|---|-------------------|----------------------|---------------------------------|----------|
|  | Molecular Formula | $C_{21}H_{23}D_3O_2$ | CAS Number 1435934-54-5 | Status |
| | Molecular Weight | 313.45 | DEA Number 7360 CI | CH DE FR |
| | THC-1297-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-1297-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-1297-10 | 10 mg | powder | |
| | THC-1297-50 | 50 mg | powder | |
| | THC-1297-100 | 100 mg | powder | |

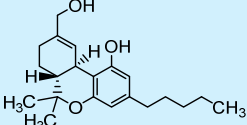
| Tetrahydrocannabivarin (THCV) | | | | |
|---|-------------------|-------------------|---------------------------------|----------|
|  | Molecular Formula | $C_{19}H_{26}O_2$ | CAS Number 31262-37-0 | Status |
| | Molecular Weight | 286.41 | DEA Number N/A | CH DE FR |
| | THC-1852-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |

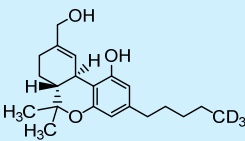
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|---|--|------------------------------------|------------|--------|-------|
|  | THCA-A (shipment under ice) | | | | |
| Synonym(s): (-)-trans- Δ^9 -THC carboxylic acid A | | | | | |
| Molecular Formula | C ₂₂ H ₃₀ O ₄ | CAS Number | 23978-85-0 | Status | |
| Molecular Weight | 358.48 | DEA Number | 7370 CI | CH | DE FR |
| THC-741-1LI | 1.0 mg/1 mL | calibrated solution in isopropanol | | | |
| THC-741-10 | 10 mg | powder | | | |
| THC-741-50 | 50 mg | powder | | | |
| THC-741-100 | 100 mg | powder | | | |

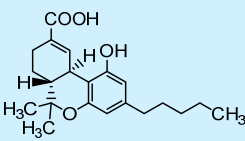
| | | | | | |
|---|--|--------------------------------|-----------|--------|-------|
|  | (-)-Δ^8-THC | | | | |
| Molecular Formula | C ₂₁ H ₃₀ O ₂ | CAS Number | 5957-75-5 | Status | |
| Molecular Weight | 314.47 | DEA Number | 7370 CI | CH | DE FR |
| THC-134-1LE | 1.0 mg/1 mL | calibrated solution in ethanol | A | A | C |
| THC-134-10LE | 10 mg/1 ml | calibrated solution in ethanol | A | A | C |
| THC-134-50LE | 50 mg/1 ml | calibrated solution in ethanol | A | A | C |
| THC-134-100LE | 100 mg/1 ml | calibrated solution in ethanol | A | A | C |

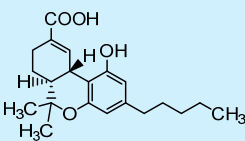
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|---|--|--------------------------------|-----------|--------|-------|
|  | (-)-trans-Δ^9-THC | | | | |
| Molecular Formula | C ₂₁ H ₃₀ O ₂ | CAS Number | 1972-08-3 | Status | |
| Molecular Weight | 314.47 | DEA Number | 7370 CI | CH | DE FR |
| THC-135-1LE | 1.0 mg/1 mL | calibrated solution in ethanol | A | A | C |
| THC-135-10LE | 10 mg/1 ml | calibrated solution in ethanol | A | A | C |
| THC-135-50LE | 50 mg/1 ml | calibrated solution in ethanol | A | A | C |
| THC-135-100LE | 100 mg/1 ml | calibrated solution in ethanol | A | A | C |

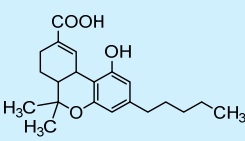
| | | | | | |
|---|---|--------------------------------|------------|--------|-------|
|  | (-)-trans-Δ^9-THC-D₃ | | | | |
| Molecular Formula | C ₂₁ H ₂₇ D ₃ O ₂ | CAS Number | 81586-39-2 | Status | |
| Molecular Weight | 317.49 | DEA Number | 7370 CI | CH | DE FR |
| THC-315-0.1LE | 0.1 mg/1 mL | calibrated solution in ethanol | A | | C |
| THC-315-1LE | 1.0 mg/1 mL | calibrated solution in ethanol | A | | C |
| THC-315-10LE | 10 mg/1 ml | solution in ethanol | A | A | C |

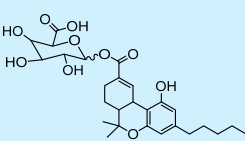
| | | | | | |
|---|---|---------------------------------|------------|--------|-------|
|  | d,l-11-Hydroxy-Δ^9-THC | | | | |
| Molecular Formula | C ₂₁ H ₃₀ O ₃ | CAS Number | 36557-05-8 | Status | |
| Molecular Weight | 330.49 | DEA Number | 7370 CI | CH | DE FR |
| THC-318-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | | | |
| THC-318-1LM | 1.0 mg/1 mL | calibrated solution in methanol | | | |

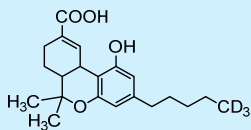
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|  | d,l-11-Hydroxy-Δ ⁹ -THC-D ₃ | | | |
| | Molecular Formula | C ₂₁ H ₂₇ D ₃ O ₃ | CAS Number | 362044-74-4 |
| | Molecular Weight | 333.49 | DEA Number | 7370 CI |
| | THC-319-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-319-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-319-10LM | 10 mg/1 ml | solution in methanol | |
| | THC-319-50LM | 50 mg/1 ml | solution in methanol | |
| THC-319-100LM | 100 mg/1 ml | solution in methanol | | |

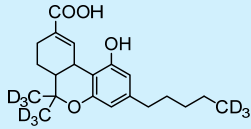
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|---|--|--|---------------------------------|------------|
|  | (-)-11-nor-Δ ⁹ -THC carboxylic acid | | | |
| | Molecular Formula | C ₂₁ H ₂₈ O ₄ | CAS Number | 56354-06-4 |
| | Molecular Weight | 344.45 | DEA Number | 7370 CI |
| | THC-316-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-316-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-316-10 | 10 mg | powder | |
| | THC-316-50 | 50 mg | powder | |
| THC-316-100 | 100 mg | powder | | |

| | | | | |
|---|---|--|---------------------------------|---------|
|  | (+) -11-Nor-Δ ⁹ -THC carboxylic acid | | | |
| | Molecular Formula | C ₂₁ H ₂₈ O ₄ | CAS Number | N/A |
| | Molecular Weight | 344.45 | DEA Number | 7370 CI |
| | THC-840-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-840-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-840-10 | 10 mg | powder | |
| | THC-840-50 | 50 mg | powder | |
| THC-840-100 | 100 mg | powder | | |

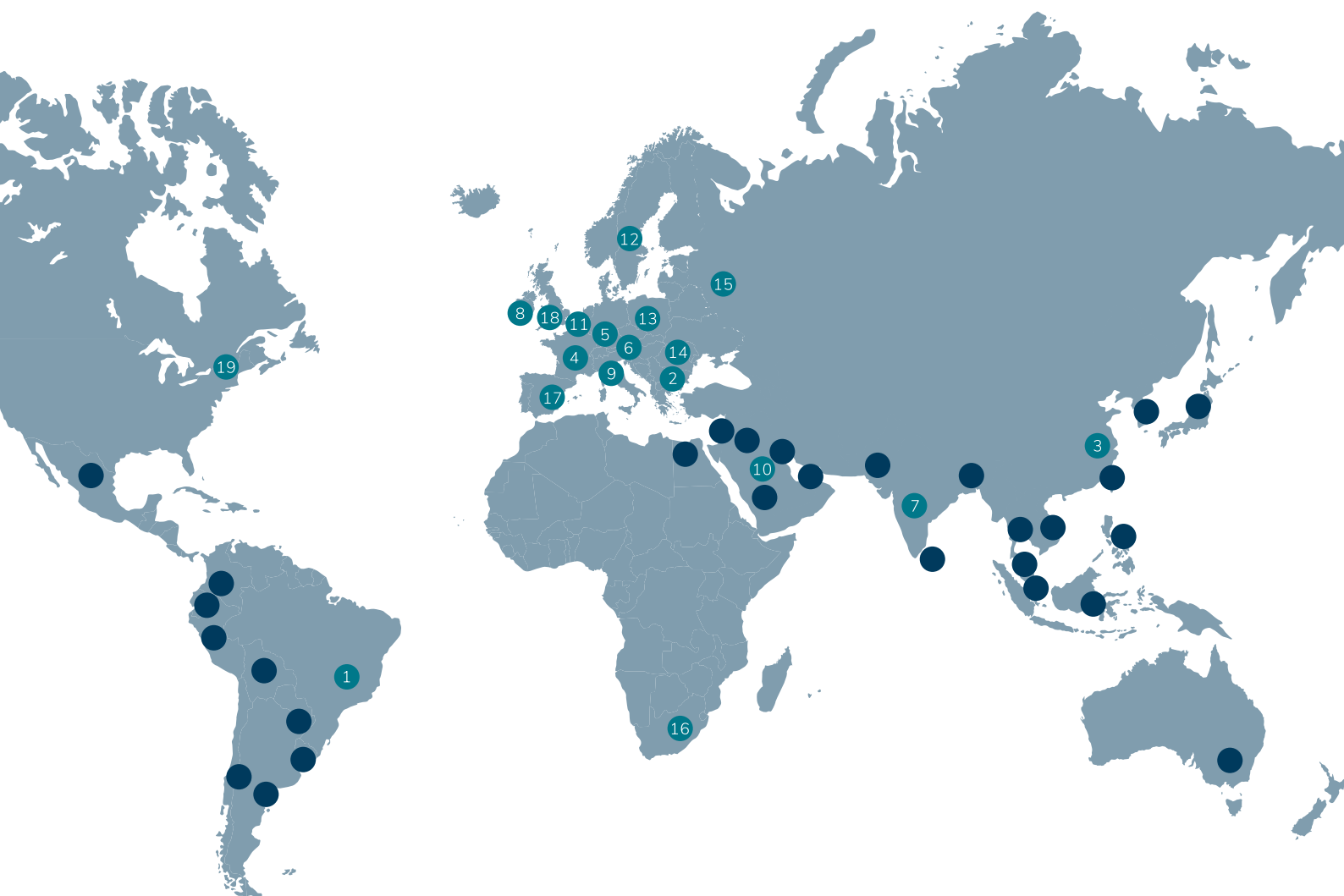
| | | | | |
|---|--|--|---------------------------------|-------------|
|  | d,l-11-Nor-Δ ⁹ -THC carboxylic acid | | | |
| | Molecular Formula | C ₂₁ H ₂₈ O ₄ | CAS Number | 104874-50-2 |
| | Molecular Weight | 344.45 | DEA Number | 7370 CI |
| | THC-726-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-726-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-726-10 | 10 mg | powder | |
| | THC-726-50 | 50 mg | powder | |
| THC-726-100 | 100 mg | powder | | |

| | | | | |
|---|---|---|---------------------------------|---------|
|  | d,l-11-Nor-Δ ⁹ -THC carboxylic acid glucuronide (shipment under ice) | | | |
| | (mix of isomers) | | | |
| | Molecular Formula | C ₂₇ H ₃₆ O ₁₀ | CAS Number | N/A |
| | Molecular Weight | 520.58 | DEA Number | 7370 CI |
| | THC-1306-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |

|  | d,l-11-nor-Δ⁹-THC carboxylic acid-D₃ | | | |
|---|---|---|---------------------------------|----------|
| | Molecular Formula | C ₂₁ H ₂₅ D ₃ O ₄ | CAS Number 136844-96-7 | Status |
| | Molecular Weight | 347.47 | DEA Number 7370 CI | CH DE FR |
| | THC-750-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-750-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-750-10 | 10 mg | powder | |
| | THC-750-50 | 50 mg | powder | |
| | THC-750-100 | 100 mg | powder | |

|  | d,l-11-nor-Δ⁹-THC carboxylic acid-D₉ | | | |
|---|---|---|---------------------------------|----------|
| | Molecular Formula | C ₂₁ H ₁₉ D ₉ O ₄ | CAS Number 136765-52-1 | Status |
| | Molecular Weight | 353.5 | DEA Number 7370 CI | CH DE FR |
| | THC-1013-0.1LM | 0.1 mg/1 mL | calibrated solution in methanol | |
| | THC-1013-1LM | 1.0 mg/1 mL | calibrated solution in methanol | |
| | THC-1013-10 | 10 mg | powder | |
| | THC-1013-50 | 50 mg | powder | |
| | THC-1013-100 | 100 mg | powder | |

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