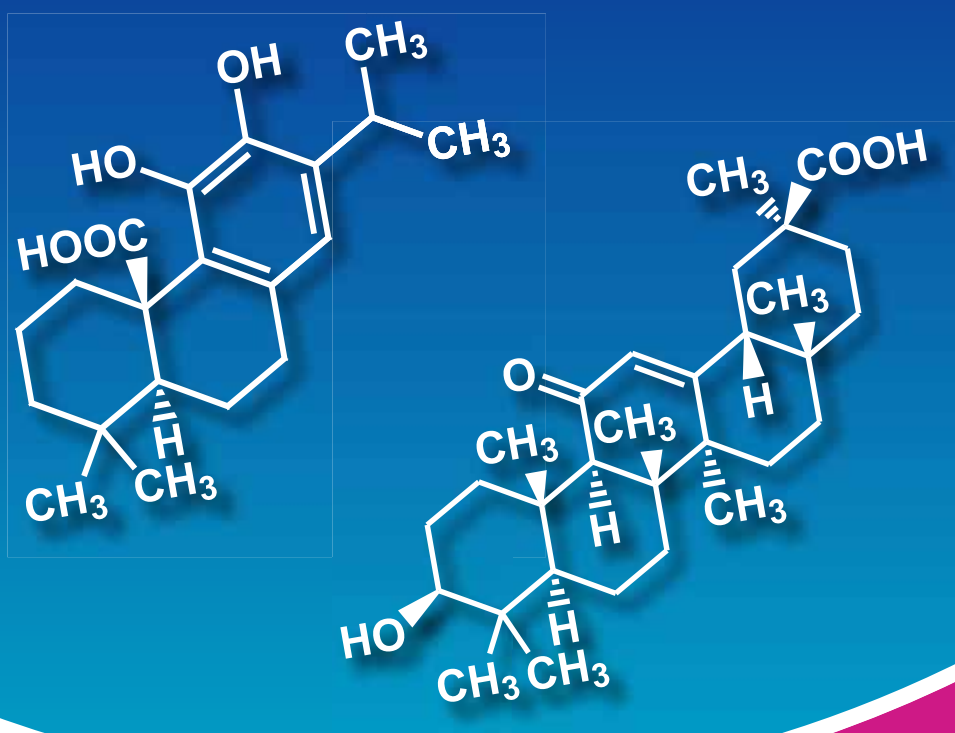


萜烯

Terpenes



半萜烯

无环单萜

单环单萜

双环单萜

倍半萜

二萜

三萜

其它萜烯

萜烯

萜烯是一大类天然产物，并且是精油的主要成分。它们是通过甲羟戊酸途径生物合成得到的。基本结构源自五碳异戊二烯单元^{1,2)}，以首尾相连的方式连接在一起以形成线性链或环。可以根据碳链的长度对它们进行分类，如下所示。

表1. 萜烯的分类和示例

名称	碳原子数	示例
半萜	5	异戊二烯
单萜	10	薄荷醇、香叶醇：香料、食品添加剂
倍半萜	15	青蒿素：抗疟药 α -红没药醇：香料、化妆品成分
二萜	20	紫杉醇：抗肿瘤剂，赤霉素：植物激素
三萜	30	羊毛甾醇：甾体生物合成的前体

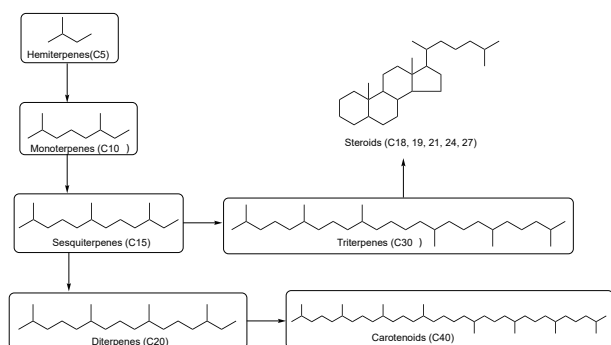


图1. 萜烯骨架的生物合成途径

萜烯在自然界中广泛存在于海洋生物和植物中。一些萜烯具有独特的生物活性，例如抗肿瘤活性，目前其作用方式也正在研究中。由于萜烯主要存在于植物中，因此经常被用作植物代谢组学分析中的标记物。

命名法

根据IUPAC命名法附录，列出了42种基本的母体骨架³⁾。实际上，其他通用名也会被频繁使用。有关更多的俗名，请参阅参考文献^{2,4)}。

溶解度

通常，大多数萜烯不溶于水，但溶于乙醇，氯仿和乙醚。可以将它们的二甲基亚砷溶液添加到缓冲溶液中，以检查它们在活生物体中的活性。请注意，随着溶解物质浓度的增加，溶液会悬浮。建议事先确定最佳浓度水平和添加量。萜烯的糖苷比其糖苷配基更具水溶性。

稳定性

通常，单萜是相对稳定的。但是，油性倍半萜和二萜烯含有更多的含氧官能团，因此稳定性较差，不适合长时间保存。而大多数三萜是固体并且显示出良好的稳定性。

检测

由于某些萜烯不具有发色团，因此很难通过正相HPLC进行紫外检测，可以使用RI（折射率）检测器替代。正相薄层色谱也很常用，通过喷洒磷钼酸溶液或硫酸铈溶液，然后加热显色来检测萜烯。

注意事项

- 单萜和一些倍半萜会与样品中存在的痕量水分形成共沸混合物，导致蒸馏过程中大量损失。因此，建议这些萜烯在使用前按照以下步骤进行适当干燥：

- (1) 将样品溶解在适当的有机溶剂中
- (2) 用无水硫酸钠或硫酸镁干燥
- (3) 真空除去溶剂。

- 在NMR检测中，分别使用两种不同的溶剂，氘代氯仿 (CDCl_3) 和苯 d_6 (C_6D_6)，可能会改变信号模式从而利于光谱的解析（主要是质子）。另外，由于残留水信号位置的变化，一些隐藏信号也可能出现。

- 在长期保存期间， CDCl_3 可能会部分分解形成光气，这会损坏珍贵的样品。因此，尤其要注意使用氘含量高（不低于99.95%D）的 CDCl_3 。分析后，样品不应以溶液形式存储在NMR管中，应从管中回收，并且溶剂应完全蒸除以防止其分解。

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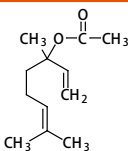
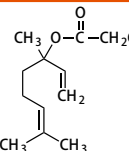
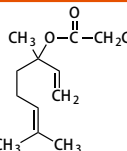
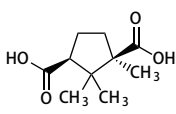
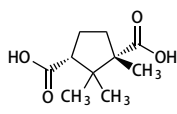
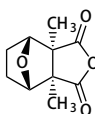
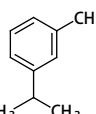
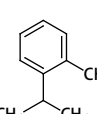
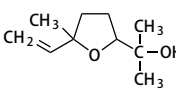
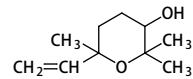
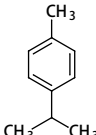
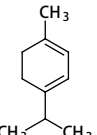
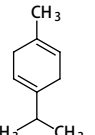
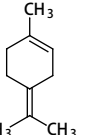
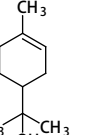
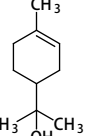
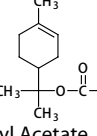
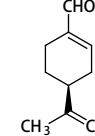
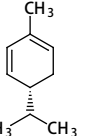
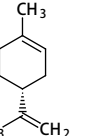
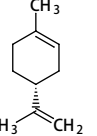
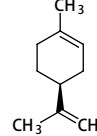
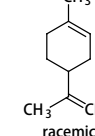
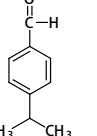
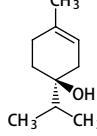
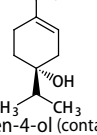
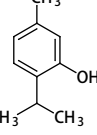
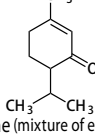
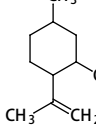
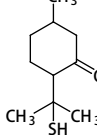
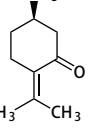
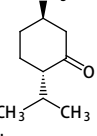
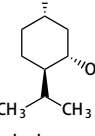
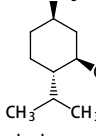
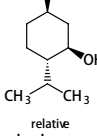
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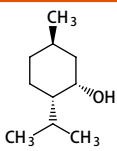
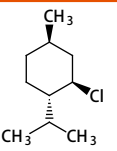
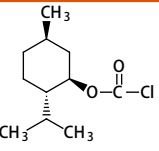
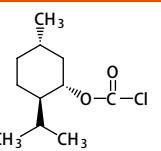
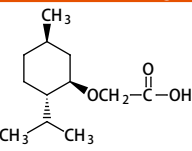
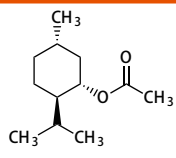
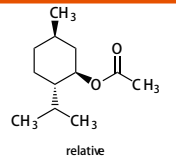
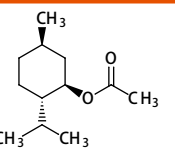
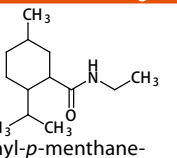
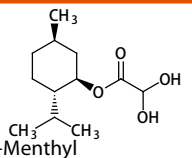
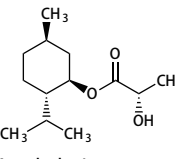
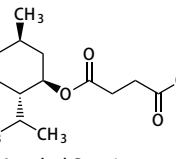
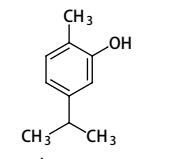
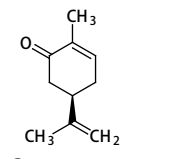
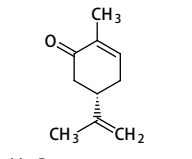
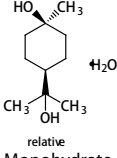
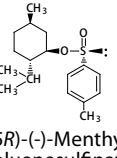
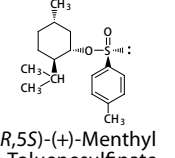
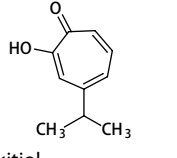
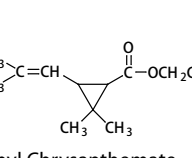
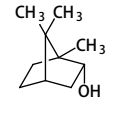
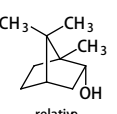
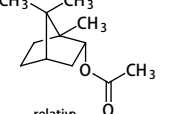
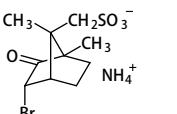
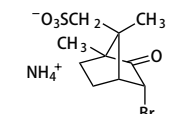
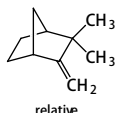
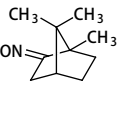
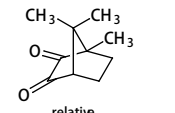
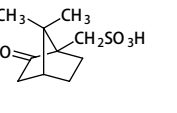
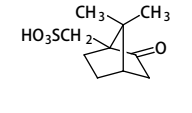
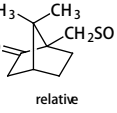
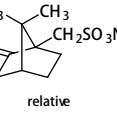
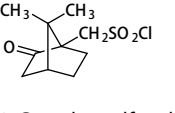
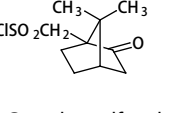
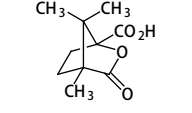
半萜烯 Hemiterpenes

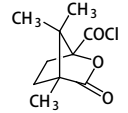
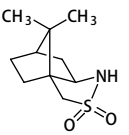
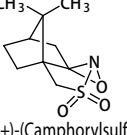
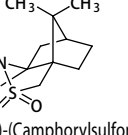
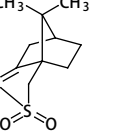
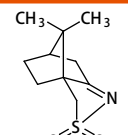
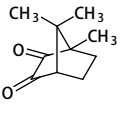
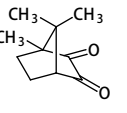
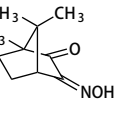
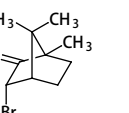
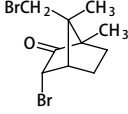
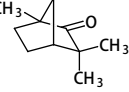
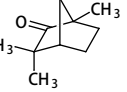
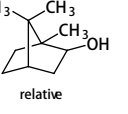
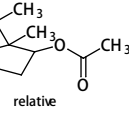
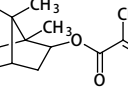
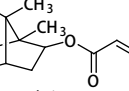
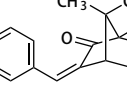
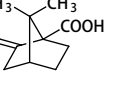
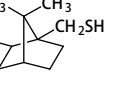
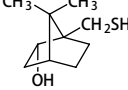
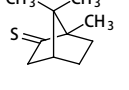
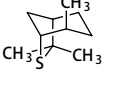
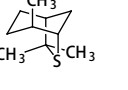
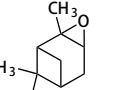
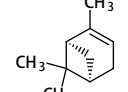
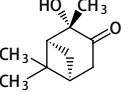
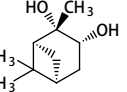
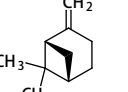
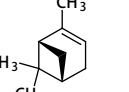
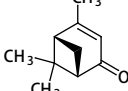
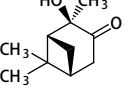
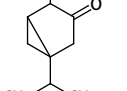
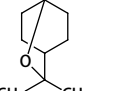
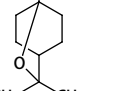
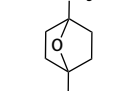
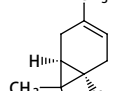
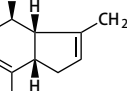
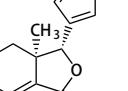
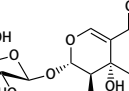
M0378 25mL	M0714 5mL 25mL 100mL 500mL	M0726 25mL 100mL 500mL	M0182 25mL 500mL	M2052 25g
3-Methyl-3-buten-2-one (stabilized with HQ) CAS RN: 814-78-8	3-Methyl-2-buten-1-ol CAS RN: 556-82-1	3-Methyl-3-buten-1-ol CAS RN: 763-32-6	Isovaleric Acid CAS RN: 503-74-2	Methyl 3,3-Dimethylacrylate CAS RN: 924-50-5
M0543 25g 100g 500g	T0246 25g 100g 500g	T1003 5mL 25mL	A1090 5g 25g 100g	
3-Methylcrotonic Acid CAS RN: 541-47-9	Tiglic Acid CAS RN: 80-59-1	trans-2-Methyl-2-butenal CAS RN: 497-03-0	α-Angelicalactone CAS RN: 591-12-8	

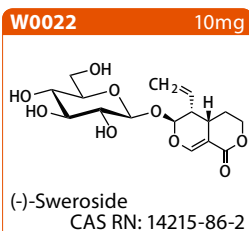
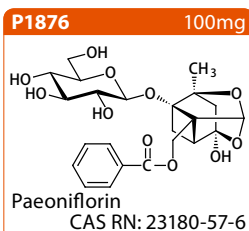
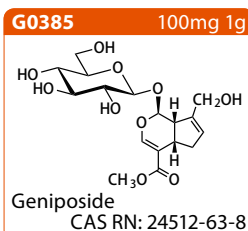
无环单萜 Acyclic Monoterpenes

D1212 1mL	C1454 5mL 25mL	C1708 25mL	M0235 25mL 500mL	C0370 25mL 100mL 500mL
2,6-Dimethyloctane CAS RN: 2051-30-1	(-)-Citronellal CAS RN: 5949-05-3	Citronellic Acid CAS RN: 502-47-6	Myrcene (stabilized with BHT) CAS RN: 123-35-3	β-Citronellol CAS RN: 106-22-9
N0077 25mL 100mL 500mL	C1466 25mL	C3619 5mL 25mL	D1442 25mL 500mL	G0027 5mL 25mL 100mL 500mL
Nerol CAS RN: 106-25-2	(-)-β-Citronellol (>95.0%) CAS RN: 7540-51-4	(-)-β-Citronellol (>98.0%) CAS RN: 7540-51-4	3,7-Dimethyl-1-octanol CAS RN: 106-21-8	Geraniol CAS RN: 106-24-1
N0463 25mL	C0915 25mL	G0028 25mL 100mL 500mL	G0218 25mL	G0430 5mL 25mL
Neryl Acetate CAS RN: 141-12-8	Citronellyl Acetate CAS RN: 150-84-5	Geranyl Acetate CAS RN: 105-87-3	Geranyl Formate CAS RN: 105-86-2	Geranyl Tiglate CAS RN: 7785-33-3
G0241 25mL	C1211 25mL 500mL	G0236 25mL	D1592 25mL 500mL	L0048 25mL 500mL
Geranyl Nitrile [mixture of (E)- and (Z)- isomers, (1:1)] CAS RN: 5146-66-7	Citral Dimethyl Acetal (cis- and trans- mixture) CAS RN: 7549-37-3	Geranylacetone [mixture of (E)- and (Z)- isomers, (3:2)] CAS RN: 689-67-8	Dihydrolinalool CAS RN: 18479-51-1	Linalool CAS RN: 78-70-6

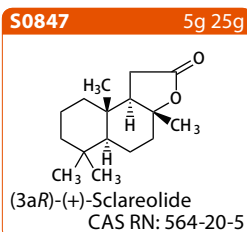
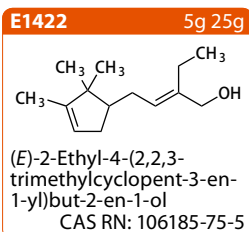
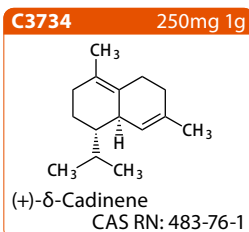
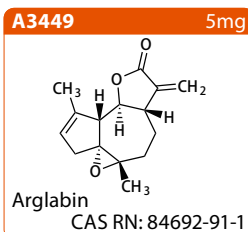
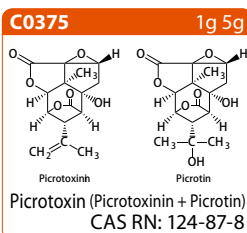
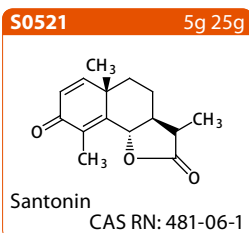
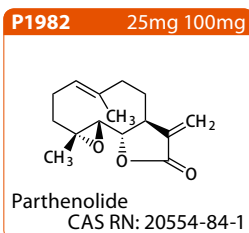
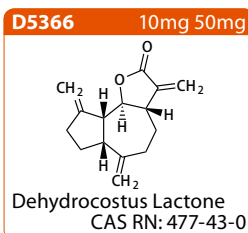
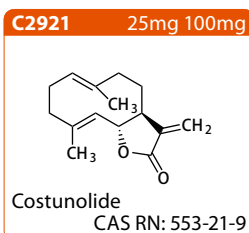
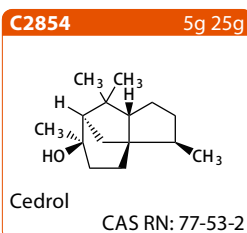
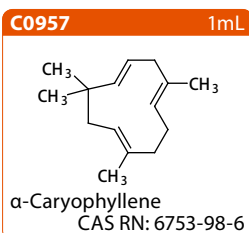
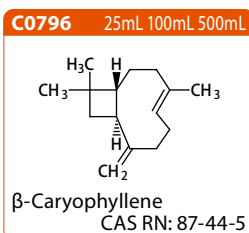
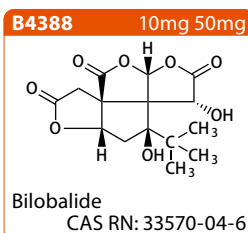
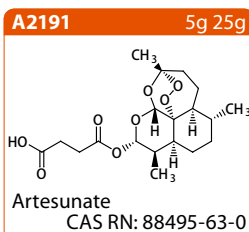
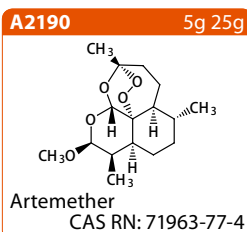
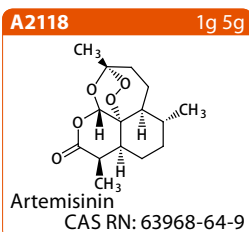
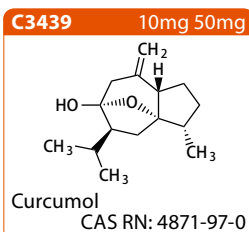
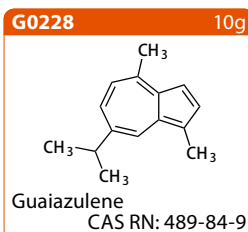
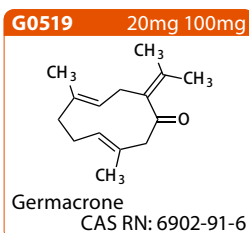
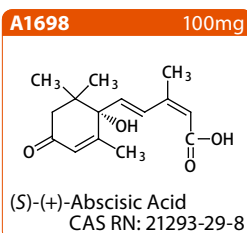
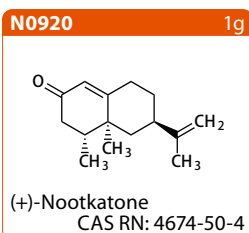
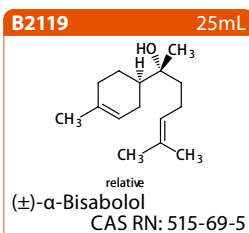
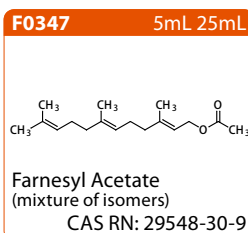
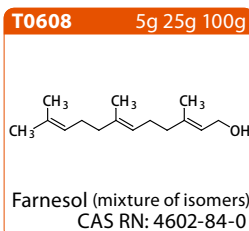
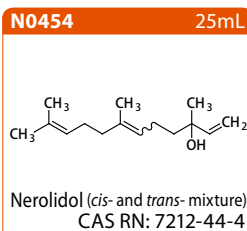
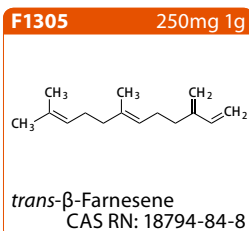
L0049 25mL 500mL  Linalyl Acetate CAS RN: 115-95-7	L0265 25mL  Linalyl Propionate CAS RN: 144-39-8	L0275 5mL 25mL  Linalyl Butyrate CAS RN: 78-36-4
单环单萜 Monocyclic Monoterpenes		
C0012 25g 100g 500g  (+)-Camphoric Acid CAS RN: 124-83-4	C3237 1g  (1S,3R)-(-)-Camphoric Acid CAS RN: 560-09-8	C0019 25mg 100mg  Cantharidin CAS RN: 56-25-7
C0798 0.1mL 1mL  <i>m</i> -Cymene CAS RN: 535-77-3	C0799 0.1mL  <i>o</i> -Cymene CAS RN: 527-84-4	C0798 0.1mL 1mL  Linalool Oxide (mixture of isomers) CAS RN: 60047-17-8
C0799 0.1mL  Linalool Oxide Pyranoid (mixture of isomers) CAS RN: 14049-11-7	C0012 25g 100g 500g  <i>p</i> -Cymene CAS RN: 99-87-6	C03237 1g  α-Terpinene CAS RN: 99-86-5
C03237 1g  γ-Terpinene CAS RN: 99-85-4	C03237 1g  Terpinolene CAS RN: 586-62-9	C03237 1g  α-Terpineol (>80.0%) CAS RN: 98-55-5
T0984 25mL 100mL 500mL  α-Terpineol (>95.0%) CAS RN: 98-55-5	T0023 25mL 500mL  Terpinyl Acetate (mixture of isomers) CAS RN: 80-26-2	P0866 5mL 25mL  (-)-Perillaldehyde CAS RN: 18031-40-8
M0051 5mL 25mL  (-)-α-Phellandrene CAS RN: 4221-98-1	L0047 5mL 25mL 500mL  (+)-Limonene (>95.0%) CAS RN: 5989-27-5	L0105 5mL 25mL  (+)-Limonene (>99.0%) CAS RN: 5989-27-5
L0132 5mL 25mL 500mL  (-)-Limonene (>95.0%) CAS RN: 5989-54-8	L0046 25mL 500mL  (±)-Limonene CAS RN: 138-86-3	I0168 25g 100g 500g  Cuminaldehyde CAS RN: 122-03-2
T2581 5g 25g  (+)-Terpinen-4-ol CAS RN: 2438-10-0	M0319 25mL  (-)-Terpinen-4-ol (contains 30% (+)-Terpinen-4-ol at maximum) CAS RN: 20126-76-5	M0410 25g 500g  Thymol CAS RN: 89-83-8
P1783 25g 100g  Piperitone (mixture of enantiomers, predominantly (R)-(-)-form) CAS RN: 89-81-6	M0320 25mL  Isopulegol (mixture of isomers) CAS RN: 7786-67-6	M2023 5g  8-Mercaptomenthone CAS RN: 38462-22-5
P2331 5mL 25mL  (+)-Pulegone CAS RN: 89-82-7	M0513 25mL 100mL 500mL  (-)-Menthone CAS RN: 14073-97-3	M3170 25g 100g  (+)-Menthol CAS RN: 15356-60-2
M0545 25g 100g 500g  (-)-Menthol CAS RN: 2216-51-5	M0321 25mL 100mL 500mL  (±)-Menthol CAS RN: 89-78-1	

N0626 5mL 25mL  (+)-Neomenthol CAS RN: 2216-52-6	M0834 1g  (-)-Menthyl Chloride CAS RN: 16052-42-9	M0990 5mL 25mL  (-)-Menthyl Chloroformate CAS RN: 14602-86-9	M1221 5mL 25mL  (+)-Menthyl Chloroformate CAS RN: 7635-54-3	M0573 5g 25g  (-)-Menthoxycetic Acid CAS RN: 40248-63-3
M2631 1mL 5mL  (+)-Menthyl Acetate CAS RN: 5157-89-1	M3399 25g  (±)-Menthyl Acetate CAS RN: 89-48-5	A1107 25mL  (-)-Menthyl Acetate CAS RN: 2623-23-6	E0796 5g 25g  N-Ethyl-p-menthane-3-carboxamide CAS RN: 39711-79-0	I0790 25g  (-)-Menthyl 2,2-Dihydroxyacetate CAS RN: 111969-64-3
I0889 5g 25g  L-Menthyl L-Lactate CAS RN: 61597-98-6	M2482 25g  (-)-Menthyl Succinate CAS RN: 77341-67-4	C0026 25g 100g 500g  Carvacrol CAS RN: 499-75-2	C0703 5mL 25mL 100mL 500mL  (R)-(-)-Carvone CAS RN: 6485-40-1	C0704 25mL  (S)-(-)-Carvone CAS RN: 2244-16-8
T2344 25g  Terpin Monohydrate CAS RN: 2451-01-6	M1044 5g 25g  (1R,2S,5R)-(-)-Menthyl (S)-p-Toluenesulfinate CAS RN: 1517-82-4	M1066 1g 5g  (15,2R,5S)-(+)-Menthyl (R)-p-Toluenesulfinate CAS RN: 91796-57-5	H0142 1g 5g  Hinokitiol CAS RN: 499-44-5	D2112 25g 100g  Ethyl Chrysanthemate CAS RN: 97-41-6
双环单萜 Bicyclic Monoterpenes				
B1012 25g 500g  (-)-Borneol CAS RN: 464-45-9	B0525 25g 500g  Borneol (contains ca. 20% Isoborneol) CAS RN: 507-70-0	B0526 25mL  Bornyl Acetate (contains ca. 20% Isobornyl Acetate) CAS RN: 5655-61-8	B1125 5g 25g  (+)-3-Bromocamphor-8-sulfonic Acid Ammonium Salt CAS RN: 14575-84-9	B4412 1g 5g  (-)-3-Bromocamphor-8-sulfonic Acid Ammonium Salt CAS RN: 55870-50-3
C0009 25g 100g  (±)-Camphene (contains ca. 20% Tricyclene) CAS RN: 79-92-5	C0013 1g 5g 25g  (1R)-Camphor Oxime CAS RN: 2792-42-9	C0014 5g 25g  (±)-Camphorquinone CAS RN: 10373-78-1	C0015 25g 100g 500g  (+)-10-Camphorsulfonic Acid CAS RN: 3144-16-9	C0972 25g 100g 500g  (-)-10-Camphorsulfonic Acid CAS RN: 35963-20-3
C0016 25g 100g 500g  (±)-10-Camphorsulfonic Acid CAS RN: 5872-08-2	C0017 25g  Sodium (±)-10-Camphorsulfonate CAS RN: 34850-66-3	C0998 5g 25g  (+)-10-Camphorsulfonyl Chloride CAS RN: 21286-54-4	C1308 5g 25g  (-)-10-Camphorsulfonyl Chloride CAS RN: 39262-22-1	C1021 1g 5g  (-)-Camphanic Acid CAS RN: 13429-83-9

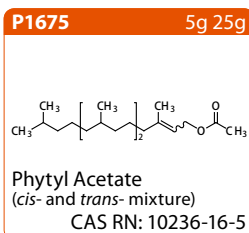
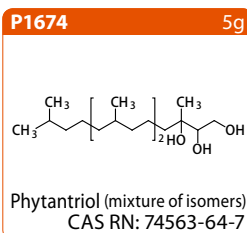
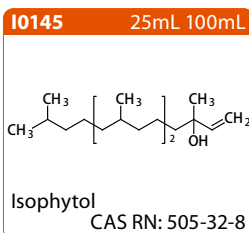
C1022 1g 5g 25g  (-)-Camphanic Chloride CAS RN: 39637-74-6	C1325 1g 5g  (-)-10,2-Camphorsultam CAS RN: 94594-90-8	C1326 1g 5g  (2R,8aS)-(+)-(Camphorylsulfonyl)-oxaziridine CAS RN: 104322-63-6	C1327 1g 5g  (2S,8aR)-(-)-(Camphorylsulfonyl)-oxaziridine CAS RN: 104372-31-8	C1391 5g  (+)-10-Camphorsulfonimine CAS RN: 107869-45-4
C1393 5g  (-)-10-Camphorsulfonimine CAS RN: 60886-80-8	C1482 1g 5g  (1R)-(-)-Camphorquinone CAS RN: 10334-26-6	C1660 1g 5g  (1S)-(+)-Camphorquinone CAS RN: 2767-84-2	C1661 1g  anti-(1R)-(+)-Camphorquinone 3-Oxime CAS RN: 31571-14-9	B0567 25g 500g  (+)-3-Bromocamphor CAS RN: 10293-06-8
D2715 5g 25g  (+)-3,9-Dibromocamphor CAS RN: 10293-10-4	F0163 25mL  (+)-Fenchone CAS RN: 4695-62-9	F0164 25mL 500mL  (-)-Fenchone CAS RN: 7787-20-4	I0275 25g 500g  (±)-Isoborneol CAS RN: 124-76-5	I0306 25mL 500mL  Isobornyl Acetate CAS RN: 125-12-2
I0617 25g 500g  relative Isobornyl Methacrylate (stabilized with MEHQ) CAS RN: 7534-94-3	I0638 25g 500g  relative Isobornyl Acrylate (stabilized with MEHQ) CAS RN: 5888-33-5	M3357 25g 200g  3-(4-Methylbenzylidene)-camphor CAS RN: 36861-47-9	K0028 1g 5g  (S)-(+)-Ketopinic Acid CAS RN: 40724-67-2	M1070 1g  (1S)-(-)-10-Mercaptoisoborneol CAS RN: 71242-58-5
M1341 100mg  (1S)-(-)-10-Mercaptoisoborneol CAS RN: 71242-59-6	T1863 1g 5g  (1R)-(-)-Thiocamphor CAS RN: 53402-10-1	T2578 1g 5g  (1R,4R,5R)-4,7,7-Trimethyl-6-thiabicyclo[3.2.1]octane CAS RN: 5718-75-2	T2579 1g 5g  (1S,4S,5S)-4,7,7-Trimethyl-6-thiabicyclo[3.2.1]octane CAS RN: 1208985-45-8	P1362 25mL 250mL  α-Pinene Oxide CAS RN: 1686-14-2
P1099 25mL 100mL 500mL  (1R)-(+)-α-Pinene CAS RN: 7785-70-8	H0863 1g 5g  (1S,2S,5S)-(-)-2-Hydroxy-3-pinanone CAS RN: 1845-25-6	P1934 5g 25g  (1S,2S,3R,5S)-(+)-2,3-Pinane diol CAS RN: 18680-27-8	P0441 25mL 500mL  (-)-β-Pinene CAS RN: 18172-67-3	P0440 25mL 500mL  (1S)-(-)-α-Pinene CAS RN: 7785-26-4
V0072 25g  (-)-Verbenone CAS RN: 1196-01-6	H0862 1g 5g  (1R,2R,5R)-(+)-2-Hydroxy-3-pinanone CAS RN: 24047-72-1	T0989 5mL 25mL  Thujone (α- and β- mixture) CAS RN: 1125-12-8	C0542 25mL  1,8-Cineole (>99.0%) CAS RN: 470-82-6	C0934 5mL 25mL 100mL 500mL  1,8-Cineole (>98.0%) CAS RN: 470-82-6
C3652 25g 100g  1,4-Cineole CAS RN: 470-67-7	C0047 25mL 500mL  (+)-3-Carene CAS RN: 498-15-7	G0458 25mg 100mg  Genipin CAS RN: 6902-77-8	F1187 10mg 50mg  Fraxinellone CAS RN: 28808-62-0	S0897 25mg  Swertiamarin CAS RN: 17388-39-5

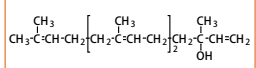
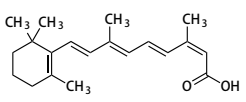
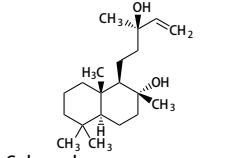
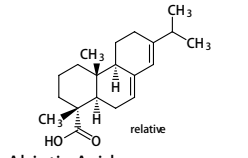
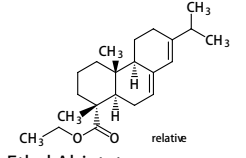
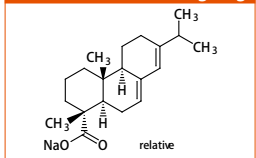
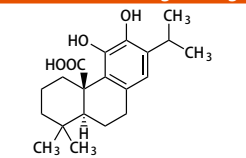
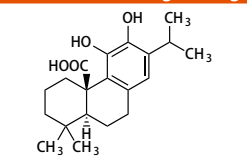
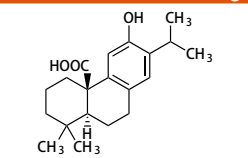
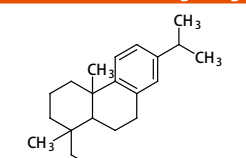
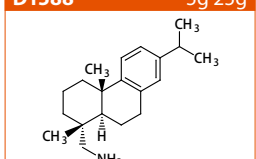
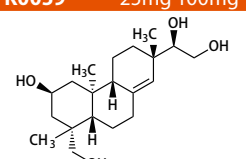
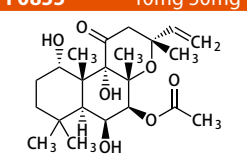
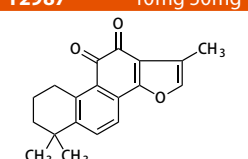
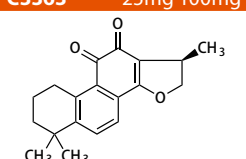
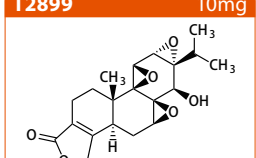
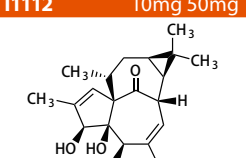
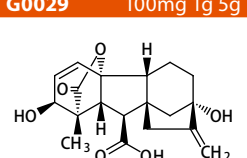
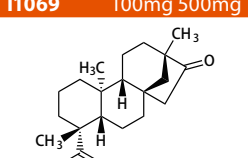
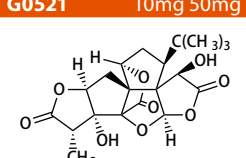
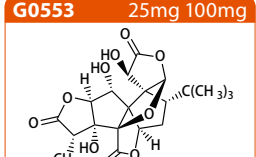
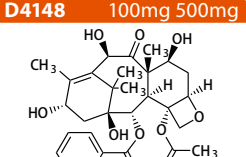
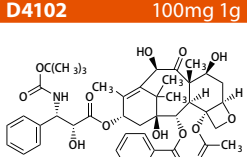
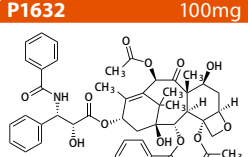
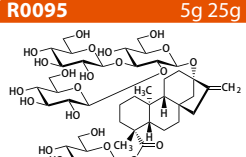
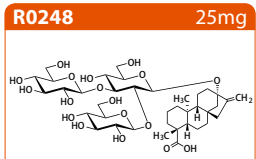
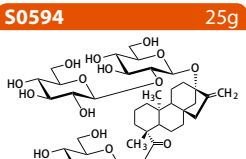
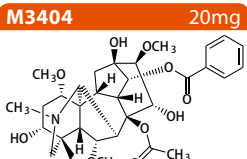
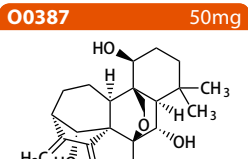
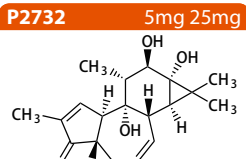
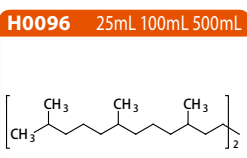
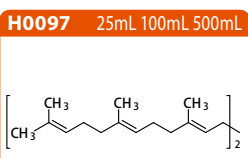
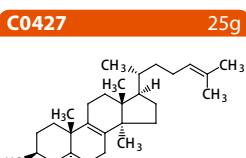
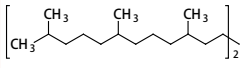
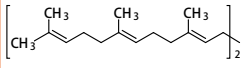
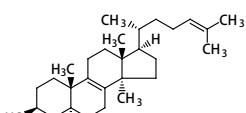


倍半萜 Sesquiterpenes

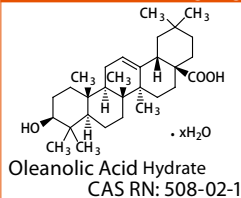


二萜 Diterpenes



G0221 25mL  Geranyl-linalool (mixture of isomers) CAS RN: 68931-30-6	R0088 100mg 1g  13- <i>cis</i> -Retinoic Acid CAS RN: 4759-48-2	S0916 1g 5g  Sclareol CAS RN: 515-03-7	A0001 25g 500g  Abietic Acid CAS RN: 514-10-3	A0002 25g  Ethyl Abietate CAS RN: 631-71-0
A0651 5g 25g  Sodium Abietate CAS RN: 14351-66-7	C2488 20mg 100mg  Carnosic Acid (Synthetic) CAS RN: 3650-09-7	C3477 20mg 100mg  Carnosic Acid CAS RN: 3650-09-7	P1933 100mg  Piferic Acid CAS RN: 67494-15-9	D1180 25g 500g  Dehydroabietylamine
D1588 5g 25g  (+)-Dehydroabietylamine CAS RN: 1446-61-3	K0059 25mg 100mg  Kirenol CAS RN: 52659-56-0	F0855 10mg 50mg  Forskolol CAS RN: 66575-29-9	T2987 10mg 50mg  Tanshinone IIA CAS RN: 568-72-9	C3363 25mg 100mg  Cryptotanshinone CAS RN: 35825-57-1
T2899 10mg  Triptolide CAS RN: 38748-32-2	I1112 10mg 50mg  Ingenol CAS RN: 30220-46-3	G0029 100mg 1g 5g  Gibberellin A ₃ CAS RN: 77-06-5	I1069 100mg 500mg  Isosteviol CAS RN: 27975-19-5	G0521 10mg 50mg  Ginkgolide A CAS RN: 15291-75-5
G0553 25mg 100mg  Ginkgolide B CAS RN: 15291-77-7	D4148 100mg 500mg  10-Deacetylbaicatin III CAS RN: 32981-86-5	D4102 100mg 1g  Docetaxel CAS RN: 114977-28-5	P1632 100mg  Paclitaxel CAS RN: 33069-62-4	R0095 5g 25g  Rebaudioside A CAS RN: 58543-16-1
R0248 25mg  Rebaudioside B CAS RN: 58543-17-2	S0594 25g  Stevioside CAS RN: 57817-89-7	M3404 20mg  Mesaconitine CAS RN: 2752-64-9	O0387 50mg  Oridonine CAS RN: 28957-04-2	P2732 5mg 25mg  Phorbol CAS RN: 17673-25-5
三萜 Triterpenes				
B0803 100mg  Betulinol CAS RN: 473-98-3	B2836 100mg 1g  Betulinic Acid CAS RN: 472-15-1	H1742 5mg 25mg  23-Hydroxybetulinic Acid CAS RN: 85999-40-2	C3469 25mg 100mg  Cycloastragenol CAS RN: 78574-94-4	M2610 5mg 25mg  Moronic Acid CAS RN: 6713-27-5
H0096 25mL 100mL 500mL  Squalane CAS RN: 111-01-3	H0097 25mL 100mL 500mL  Squalene CAS RN: 111-02-4	C0427 25g  Lanosterol CAS RN: 79-63-0		

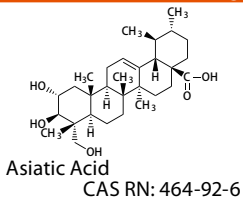
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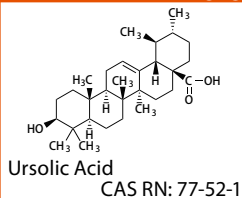
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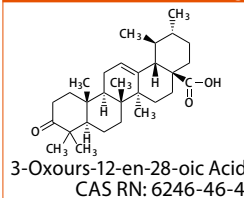
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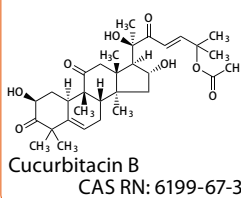
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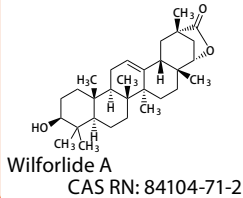
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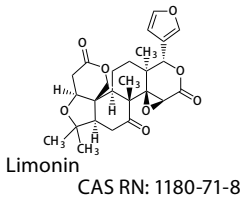
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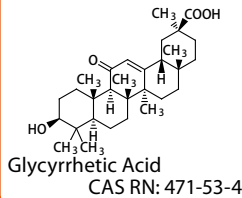
W0011 5mg 25mg



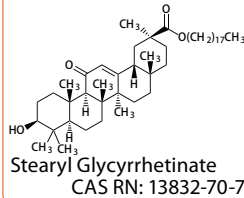
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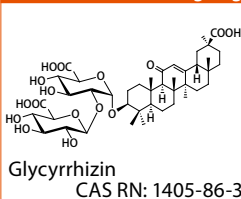
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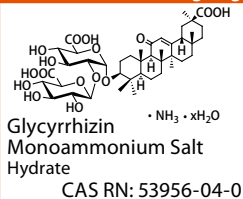
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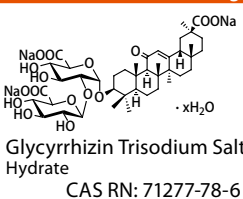
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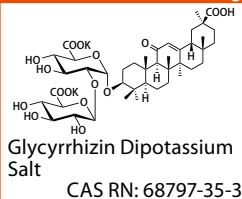
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G0217 25g



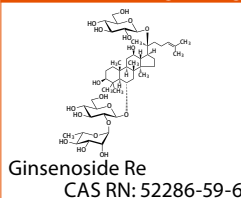
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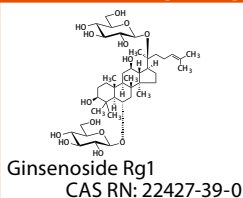
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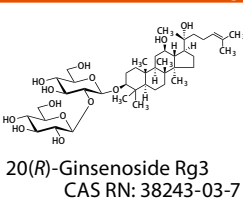
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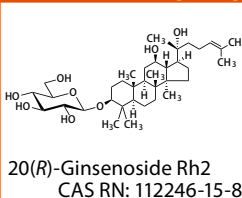
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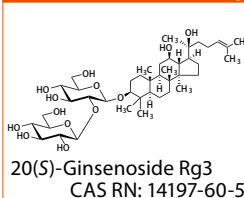
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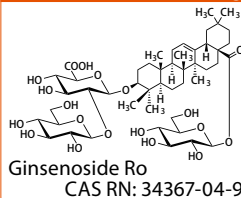
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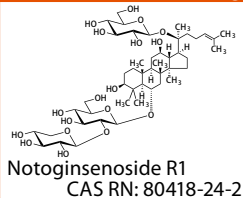
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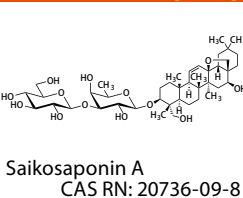
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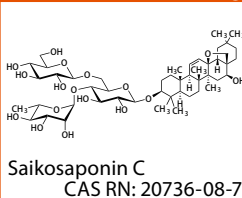
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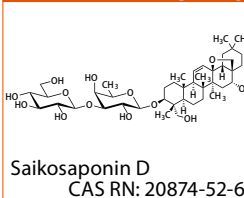
A3408 10mg 50mg



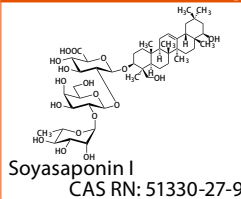
A3189 25mg



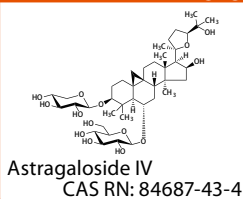
A3405 10mg 50mg



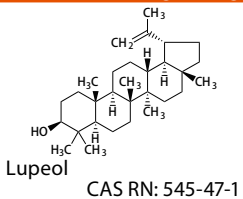
O0587 10mg



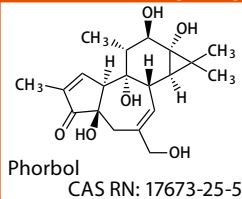
A3305 250mg 1g



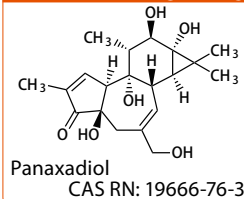
L0321 25mg 100mg



P2732 5mg 25mg

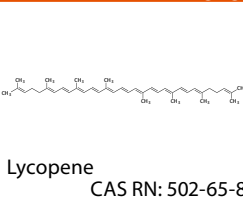


P2811 50mg 250mg

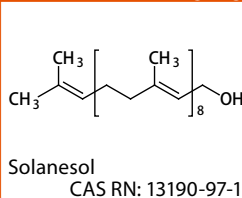


其它萜烯 Other Terpenes

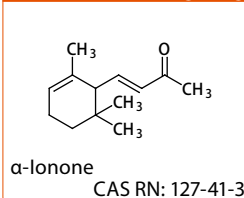
L0257 250mg 1g



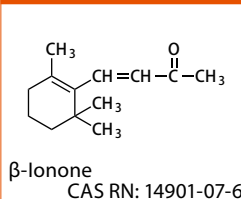
S0525 5g 25g



I0076 25g 250g



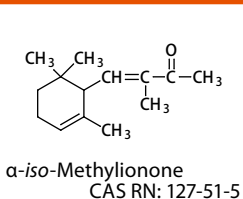
I0077 25mL 100mL 500mL



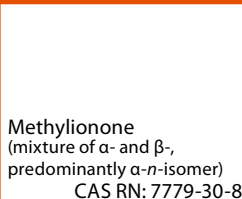
D5751 25g 100g



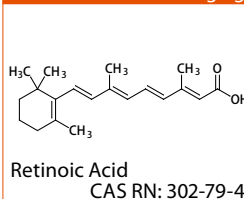
M0647 25mL

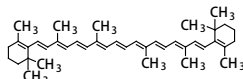
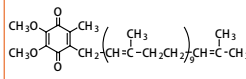
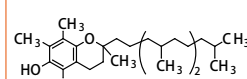
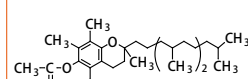
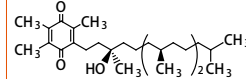
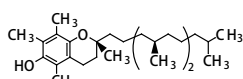
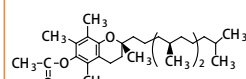
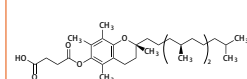


M0363 25mL



R0064 1g 5g



C0560 1g 5g  β-Carotene CAS RN: 7235-40-7	C1971 100mg 1g  Coenzyme Q₁₀ CAS RN: 303-98-0	T0251 25g 250g  DL-α-Tocopherol CAS RN: 10191-41-0	T0252 25g 100g 500g  DL-α-Tocopherol Acetate CAS RN: 7695-91-2	T2283 500mg  D-α-Tocopherylquinone CAS RN: 7559-04-8
T2309 25g  D-α-Tocopherol CAS RN: 59-02-9	T2322 25g  D-α-Tocopherol Acetate CAS RN: 58-95-7	T2628 5g 25g  D-α-Tocopherol Succinate CAS RN: 4345-03-3	C0781 25g Capsanthin (=Paprika Extract) (Vegetable oil solution) CAS RN: 465-42-9	C1527 25g Crocin (Gardenia Fruits Extract) CAS RN: 42553-65-1



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