

## Flavonoids and Terpenes

- Analytical standards for flavonoids and terpene analysis
- Single-element standards and mixes available



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## Flavonoids and Terpenes

Flavonoids are naturally occurring secondary metabolic products which can have important functions within plants and benefit consumers with health and healing properties.

Many beneficial compounds are metabolites produced as an end product of chemical and biological processes. Metabolites are small molecules that have many functions including defense, pigments, pheromones, odorants and catalysts. Primary metabolites are necessary for plant growth, development and reproduction. Flavonoids are secondary plant, algae or fungus metabolites composed of polyphenolic compounds. Secondary metabolites are not directly involved in critical processes but have secondary functions involving defense and pigmentation. We offer analytical standards for flavonoid analysis.

Terpenes are the common term for a large group of compounds that contribute to flavor and smell of botanical products.

Custom standards are also available. Contact us at [+1.732.549.7144](tel:+17325497144) or via email at [spexsales@antylia.com](mailto:spexsales@antylia.com) to discuss your specific requirements.



Organic Certified  
Reference Materials



Analytical Standards for  
Flavonoid and Terpene Testing



Supplied with a  
Certificate of Analysis



ISO Accredited  
Standards

# Flavonoid Standards and Compound Mix

Flavonoid Standard Mix in Dimethyl Sulfoxide					
Component	CAS #	Component	CAS #	Component	CAS #
Apigenin	520-36-5	(-)-Epicatechin	490-46-0	Myricetin	529-44-2
Baicalin	21967-41-9	Epigallocatechin	989-51-5	Orientin	28608-75-5
(+)-Catechin	154-23-4	Isovitexin	38953-85-4	Quercetin	117-39-5
Catechol	120-80-9	Kaempferol	520-18-3	Rutin	153-18-4
Chrysin	480-40-0	Luteolin	491-70-3	Vitexin	3681-93-4
		<b>Concentration</b>	<b>Volume</b>	<b>Part #</b>	
		1,000 µg/mL	1 mL	FLAVIN-1	

We offer the additional analytical standards below for flavonoid analysis. Contact us at [spexsales@antylia.com](mailto:spexsales@antylia.com) or [+1.732.549.7144](tel:+17325497144) for details and to discuss your specific requirements.

Flavonoid Standards	
Component	CAS #
Apigenin	520-36-5
(+)-Catechin (as catechin hydrate)	7295-85-4
Catechol	120-80-9
(-)-Epicatechin	490-46-0
Epigallocatechin	970-74-1
Kaempferol	520-18-3
Luteolin	490-70-3
Myricetin	529-44-2
Quercetin	117-39-5
Vitexin	3681-93-4

# Terpenes

Terpenes					
Component	CAS #	Concentration	Volume	Matrix	Part #
Bisabolene	495-62-5	1,000 µg/mL	1 mL	Methanol-P&T	S-502
(-)-alpha-Bisabolol	23089-26-1	1,000 µg/mL	1 mL	Methanol	S-7598
Borneol	507-70-0	1,000 µg/mL	1 mL	Methanol-P&T	S-4570
(+)-Borneol	464-43-7	1,000 µg/mL	1 mL	Methanol-P&T	S-5093
(-)-Borneol	464-45-9	1,000 µg/mL	1 mL	Methanol	S-7587
D-Camphene	5794-03-6	1,000 µg/mL	1 mL	Methanol-P&T	S-710
Camphene (mix of isomers)	79-92-5	1,000 µg/mL	1 mL	Methanol	S-7599
Camphor	76-22-2	1,000 µg/mL	1 mL	Methanol-P&T	S-3925
(1R)-(+)-Camphor	464-49-3	1,000 µg/mL	1 mL	Methanol	S-7600
(1S)-(-)-Camphor	464-48-2	1,000 µg/mL	1 mL	Methanol	S-7601
3-Carene	13466-78-9	1,000 µg/mL	1 mL	Methanol-P&T	S-4171
(1S)-(+)-3-Carene	498-15-7	1,000 µg/mL	1 mL	Methanol	S-7602
trans-Caryophyllene	87-44-5	1,000 µg/mL	1 mL	Methanol	S-5690
(-)-Caryophyllene oxide	1139-30-6	1,000 µg/mL	1 mL	Methanol	S-7584
alpha-Cedrene	469-61-4	1,000 µg/mL	1 mL	Methanol	S-5691
(+)-Cedrol	77-53-2	1,000 µg/mL	1 mL	Methanol	S-7603
Citronellol	106-22-9	1,000 µg/mL	1 mL	Methanol-P&T	S-4868
(1R)-Endo-(+)-Fenchyl alcohol	2217-02-9	1,000 µg/mL	1 mL	Methanol	S-7604
2-Ethyl-Fenchol	18368-91-7	1,000 µg/mL	1 mL	Ethanol	S-4952
Ethylenediamine	107-15-3	1,000 µg/mL	1 mL	HPLC Grade Water	LCS-1961
Eucalyptol	470-82-6	1,000 µg/mL	1 mL	Methanol	S-4352
Farnese (mix of isomers)	502-61-4	1,000 µg/mL	1 mL	Methanol-P&T	S-1989
Fenchone	1195-79-5	1,000 µg/mL	1 mL	Methanol-P&T	S-4569
(+)-Fenchone	4695-62-9	1,000 µg/mL	1 mL	Methanol	S-7585
L(-)-Fenchone	7787-20-4	1,000 µg/mL	1 mL	Methanol-P&T	S-5091
Geraniol	106-24-1	1,000 µg/mL	1 mL	Methanol-P&T	S-4866
Geranyl acetate	105-87-3	1,000 µg/mL	1 mL	Methanol	S-7605
Guaïol	489-86-1	1,000 µg/mL	1 mL	Methanol-P&T	S-5698
Hexahydrothymol	89-78-1	1,000 µg/mL	1 mL	Methanol	S-7588
alpha-Humulene	6753-98-6	1,000 µg/mL	1 mL	Methanol	S-5692
Isobomeol	124-76-5	1,000 µg/mL	1 mL	Methanol	S-4674
Isoprene	78-79-5	1,000 µg/mL	1 mL	Methanol-P&T	S-2300
p-Isopropyltoluene	99-87-6	1,000 µg/mL	1 mL	Methanol-P&T	S-2320
(-)-Isopulegol	89-79-2	1,000 µg/mL	1 mL	Methanol	S-7606
(R)-(+)-Limonene	5989-27-5	1,000 µg/mL	1 mL	Methanol-P&T	S-4021

**Terpenes (cont'd)**

Component	CAS #	Concentration	Volume	Matrix	Part #
Linalool	78-70-6	1,000 µg/mL	1 mL	Methanol	S-5133
Maltitol	585-88-6	1,000 µg/mL	1 mL	LCMS Grade Water	LCS-4348
Maltotriose	1109-28-0	1,000 µg/mL	1 mL	HPLC Grade Water	LCS-4859
p-Mentha-1,5-diene	99-83-2	1,000 µg/mL	1 mL	Methanol	S-4173
Menthol	2216-51-5	1,000 µg/mL	1 mL	Methanol-P&T	S-4669
beta-Myrcene	123-35-3	1,000 µg/mL	1 mL	Hexane	S-2654
Nerol	106-25-2	1,000 µg/mL	1 mL	Methanol	S-7607
cis-Nerolidol	3790-78-1	1,000 µg/mL	1 mL	Methanol	S-7608
trans-Nerolidol	40716-66-3	1,000 µg/mL	1 mL	Methanol	S-7609
Ocimene (mix of isomers)	13877-91-3	1,000 µg/mL	1 mL	Methanol	S-7515
alpha-Pinene	80-56-8	1,000 µg/mL	1 mL	Methanol-P&T	S-4172
beta-Pinene	127-91-3	1,000 µg/mL	1 mL	Methanol-P&T	S-3142
(+)-Pulegone	89-82-7	1,000 µg/mL	1 mL	Methanol	S-5136
Sabinene	3387-41-5	1,000 µg/mL	1 mL	Methanol	S-6645
Sabinene hydrate	546-79-2	1,000 µg/mL	1 mL	Methanol	S-7610
Terpineol (mix of isomers)	8000-41-7	1,000 µg/mL	1 mL	Methanol	S-7611
alpha-Terpineol	10482-56-1	1,000 µg/mL	1 mL	Acetone	S-3356-AC
alpha-Terpineol	98-55-5	1,000 µg/mL	1 mL	Methanol-P&T	S-4145
alpha-Terpinene	99-86-5	1,000 µg/mL	1 mL	Methanol	S-5687
gamma-Terpinene	99-85-4	1,000 µg/mL	1 mL	Methanol	S-5688
2,6,10,14-Tetramethylpentadecane	1921-70-6	1,000 µg/mL	1 mL	Tetrachloroethylene	LCS-3125-TETCHET
Valencene	4630-07-3	1,000 µg/mL	1 mL	Methanol	S-7612

**CAN-TERP Mix 1 in Methanol**

Component	CAS #	Component	CAS #	Component	CAS #
(-)-alpha-Bisabolol	23089-26-1	Eucalyptol	470-82-6	Linalool	78-70-6
Camphene	79-92-5	Farnesene (mix of isomers)	502-61-4	p-Mentha-1,5-diene	99-83-2
Camphor	76-22-2	(+)-Fenchone	4695-62-9	beta-Myrcene	123-35-3
(1S)-(+)-3-Carene	498-15-7	Geranyl acetate	105-87-3	Nerol	106-25-2
(-)-Caryophyllene oxide	1139-30-6	Hexahydrothymol	89-78-1	cis-Nerolidol	3790-78-1
trans-Caryophyllene	87-44-5	Isoborneol	124-76-5	Ocimene (mix of isomers)	13877-91-3
(+)-Cedrol	77-53-2	(-)-Isopulegol	89-79-5	Valencene	4630-07-3
<b>Concentration</b>	<b>Volume</b>	<b>Part #</b>	<b>Concentration</b>	<b>Volume</b>	<b>Part #</b>
100 µg/mL	1 mL	CAN-TERP-MIX1	1,000 µg/mL	1 mL	CAN-TERP-MIX1H

### CAN-TERP Mix 2 in Methanol

Component	CAS #	Component	CAS #	Component	CAS #
(+)-Borneol	464-43-7	Geraniol	106-24-1	(+)-Pulegone	89-82-7
(-)-Borneol	464-45-9	Guaiol	489-86-1	alpha-Terpinene	99-86-5
(1R)-(+)-Camphor	464-49-3	alpha-Humulene	6753-98-6	gamma-Terpinene	99-85-4
(1S)-(-)-Camphor	464-48-2	(R)-(+)-Limonene	5989-27-5	Terpinolene	586-62-9
alpha-Cedrene	469-61-4	trans-Nerolidol	40716-66-3	Terpineol (mix of isomers)	8000-41-7
L(-)-Fenchone	7787-20-4	alpha-Pinene	80-56-8	Sabinene	3387-41-5
(1R)-endo-(+)-Fenchyl alcohol	2217-02-9	beta-Pinene	127-91-3	Sabinene hydrate	546-79-2

  

Concentration	Volume	Part #	Concentration	Volume	Part #
100 µg/mL	1 mL	CAN-TERP-MIX2	1,000 µg/mL	1 mL	CAN-TERP-MIX2H

### CAN-TERP Kit in Methanol

Kit Contains			
CAN-TERP-MIX1		CAN-TERP-MIX2	
	Concentration	Volume	Part #
	100 µg/mL	1 mL	CAN-TERP-KIT

### CAN-TERP Kit (High Level) in Methanol

Kit Contains			
CAN-TERP-MIX1H		CAN-TERP-MIX2H	
	Concentration	Volume	Part #
	1,000 µg/mL	1 mL	CAN-TERP-KIT-H

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