

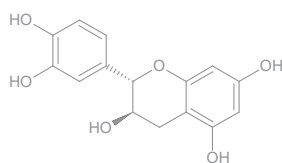
40^{V1.0.40}
molecules
included



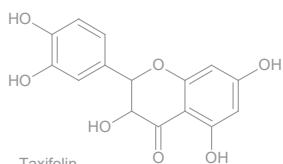
Providing high quality metabolite library

Polyphenols Standards Mix Flavonoids Standard Mixture

For HPLC and Mass Spectrometry



Catechin



Taxifolin

Semi-
QUANTITATIVE



Photo by Pixabay.com

The presence of polyphenolic micronutrients in food is shown to be beneficial to humans health due to their powerful anti-oxidation properties. MetaSci's Flavonoids Mix contains 40 flavonoids including flavonols, flavonones and chalcones that are commonly found in plants, foods and health supplements. The standard mixtures come as 0.2 -1.0 mM methanolic solution and are suitable to use with HPLC methods utilizing a standard C18 column and MS, UV or ELSD detector. Each mixture is designed to have 10 compounds highly resolved on C18 column with no isobaric interference which makes it to work even on a low resolution MS. The standard mixtures can be used for peak identification, making calibration curves for quantification and making an in-house digital library of spectra.

Why digital libraries (NIST, METLIN, etc.) are not enough?

Every instrument yields an analysis result specific to its brand, build, methods and other parameters. Digital libraries only contain spectra resulted from the instrument of its producer and lose quality as it is used for other machines. To produce the most accurate result for each instrument, a lab should run physical standards on every instrument and on each when the methods or conditions (column, solvent, pH, etc) changes.

CONTACT US

info@metasci.ca

www.metasci.ca

Tel. +1-289-597-1611

110 West Beaver Creek

Rd, Unit 7

Richmond Hill, ON

L4B 1J9, CANADA

www.metasci.ca

40 Flavonones, Flavonols and Chalcones

high purity, single peak, completely resolved
0.2mM - 1.0mM in MeOH/DMF (2:1)

20 High recovery microampules

each set of standard is provided in five 200µL microampules
totaling 1.0mL of standard solution

One internal standard

to adjust your retention time with IS lock

Zero isobaric interference

allows identification with single quad mass spectrometer without a
need for digital libraries for identification

Comes with

Spectral analysis

Analysis method

Works with

HPLC/UHPLC

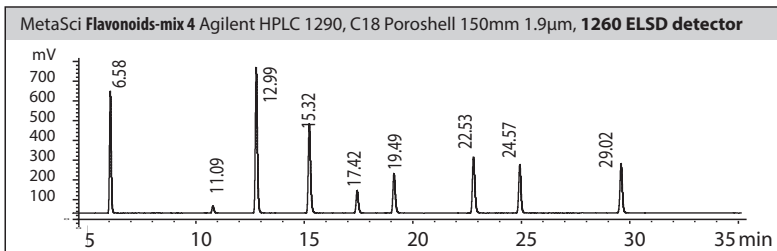
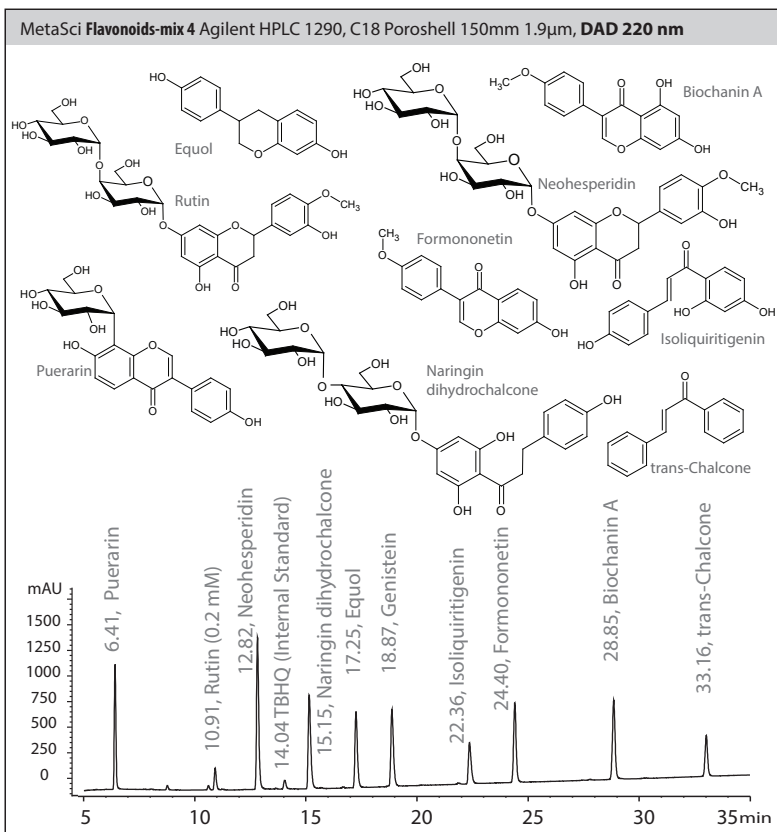
Certificate of analysis

Safety data sheet

Single Quad

QQQ

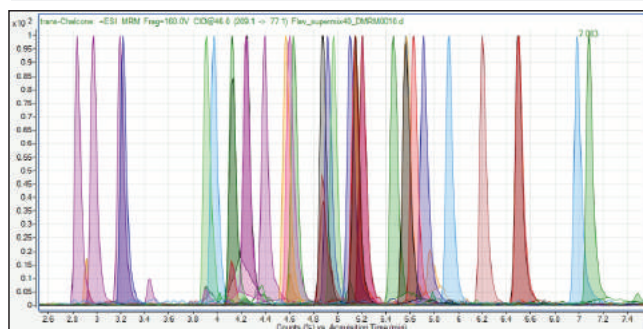
QTOF



Providing high quality metabolite library

List of molecules (V1.0.40)

- | | |
|--|------------------------------|
| 1. (+)-Catechin (Hydrate) | 20. Chrysin |
| 2. Mangiferin | 21. (-)-Epicatechin |
| 3. Naringin | 22. (±)-Taxifolin |
| 4. Myricetin | 23. Phloridzin |
| 5. Baicalin | 24. Fisetin |
| 6. Quercetin | 25. Daidzein |
| 7. Neohesperidin dihydrochalcone | 26. Resveratrol |
| 8. Phloretin | 27. Apigenin |
| 9. Kaempferol | 28. 4'-Hydroxychalcone |
| 10. Baicalein | 29. Flavone |
| 11. (-)-Epigallocatechin gallate hydrate | 30. 3-Hydroxyflavone |
| 12. Polydatin | 31. Puerarin |
| 13. Hesperidin | 32. Rutin |
| 14. Diosmin | 33. Neohesperidin |
| 15. Morin | 34. Naringin dihydrochalcone |
| 16. (+/-)-Naringenin | 35. Equol |
| 17. Luteolin | 36. Genistein |
| 18. Hesperetin | 37. Isoliquiritigenin |
| 19. Diosmetin | 38. Formononetin |
| | 39. Biochanin A |
| | 40. trans-Chalcone |



MetaSci Flavonoids supermix (mix of all vials, 40 compounds) resolved in under 5 min on a C18, 50mm, 2.7µm column and detected by QQQ 6460C MS/MS. Find all transitions by going to spec.metasci.ca and entering your product code.

Suitable for:

HPLC-MS/MS ((single quad, triple quad, QTOF, Orbitrap)
HPLC-UV, HPLC-ELSD, HPLC-CAD

Applications:

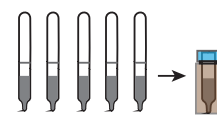
- Find the retention time of molecules after changing the method
- Find the retention time of molecules after changing the column
- Use the standards to make calibration curves for quantification
- Add the compounds to your in-house library for enhanced compound search/identification with RT and m/z value
- Optimize your method for the most abundant transition

Provided in

patented SnapGo™ high recovery microampules



✗ A 1 mL ampule will lose quality/concentration over time after breaking open



✓ Five microampules allow injections from a fresh solution after one is used