

50^{V1.0.50}
molecules
included



Providing high quality metabolite library

Polyphenols Standard Mix Phenolic acids and alcohols

For HPLC and Mass Spectrometry

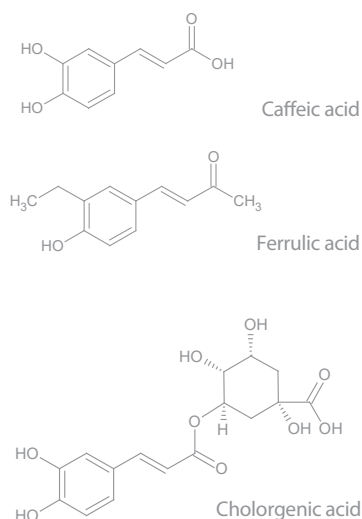


Photo by pixabay

FULLY
QUANTITATIVE

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

The presence of polyphenolic micronutrients in food is shown to be beneficial to humans health due to their powerful anti-oxidation properties. MetaSci's Phenolic Acids Standard Mix contains 50 phenolic compounds that are building blocks of polyphenols. The standard mixtures come as 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 9-10 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.

www.metasci.ca

50 Phenolic acid and alcohol molecules

high purity, single peak, completely resolved
1.0 mM in methanol

25 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

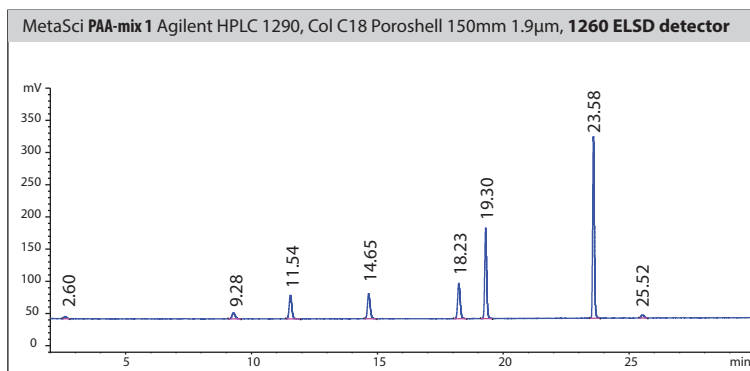
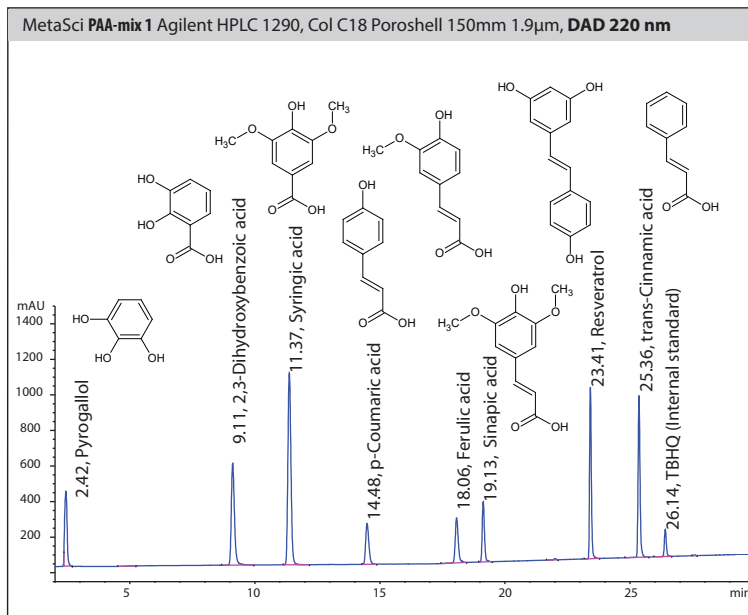
Comes with

Spectral analysis	Analysis method	HPLC/UHPLC		
Certificate of analysis	Safety data sheet	Single Quad	QQQ	QTOF

Works with

List of molecules (V1.0.50)

- | | |
|-------------------------------|-----------------------------------|
| 1. Pyrogallol | 26. Caffeic acid dimethyl ether |
| 2. 2,3-Dihydroxybenzoic acid | 27. 3-Methoxyhydrocinnamic acid |
| 3. Syringic acid | 28. 4-Ethylguaiaicol |
| 4. Ferulic acid | 29. 4-n-propylphenol |
| 5. p-Coumaric acid | 30. Caffeic acid phenethyl ester |
| 6. Sinapic acid | 31. Gallic acid |
| 7. Resveratrol | 32. 3,5-Dihydroxybenzoic acid |
| 8. trans-Cinnamic acid | 33. Tyrosol |
| 9. Phloroglucinol | 34. Dihydrocaffeic acid |
| 10. Resorcinol | 35. Vanillic acid |
| 11. 2,6-Dihydroxybenzoic acid | 36. 4-Acetylresorcinol |
| 12. Caffeic acid | 37. 3,5-Dimethoxyphenol |
| 13. Hydroferulic acid | 38. Hydrocinnamic acid |
| 14. Chlorogenic acid | 39. Salicylic Acid |
| 15. Syringol | 40. 2,3,4-Trihydroxybenzoic acid |
| 16. 4-Methylguaiaicol | 41. 2,4-Dihydroxybenzoic Acid |
| 17. 4-Ethylphenol | 42. 3-Hydroxybenzoic acid |
| 18. Nordihydroguaiaietic Acid | 43. phenol |
| 19. 3,4-Dihydroxybenzoic acid | 44. Coniferyl Alcohol |
| 20. Catechol | 45. m-Coumaric acid |
| 21. 4-Acetocatechol | 46. 2-Acetylresorcinol |
| 22. 4-Methylcatechol | 47. 4-Methylsyringol |
| 23. Acetylphloroglucinol | 48. 3,4,5-Trimethoxycinnamic acid |
| 24. 4-Hydroxybenzoic acid | 49. α-Methyl-cinnamic acid |
| 25. Homovanillic acid | 50. trans-Pterostilbene |



Suitable for:

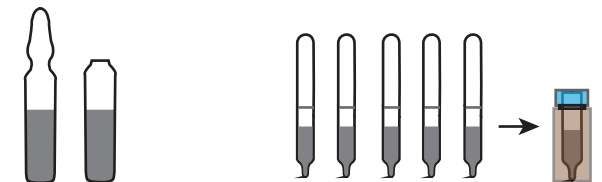
- HPLC-MS (single quad)
- HPLC-MS/MS (triple quad)
- HPLC-MS (QTOF,Orbitrap)
- HPLC-UV, HPLC-ELSD, HPLC-CAD

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*TM high recovery microampules



X A 1.0 mL ampule will lose quality/concentration over time after breaking open

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