

APPLICATION

Catechins and Phenolic Acids Using a Kinetex® F5 Core-Shell LC Column

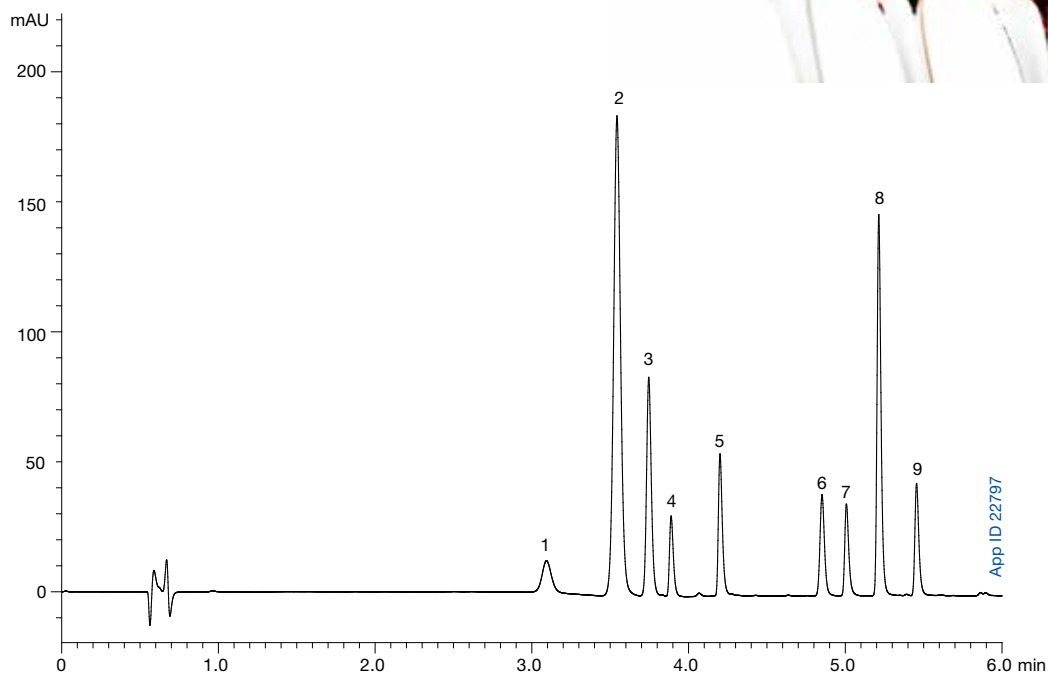
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Overview

The polyphenol profile of a red wine is very important as it provides information not only about how a wine will taste but also about both the variety of wine as well as the geographical location that the wine was produced from. Additionally, polyphenol screens are becoming more common as they're a significant tool for antioxidant research, vineyard quality control, and fraudulent investigation. For these reasons, there is great interest in the accurate quantification of polyphenolic wine-constituents. As shown below, the Kinetex 2.6µm F5 column provides excellent polyphenol selectivity for this HPLC assay using UV detection; resulting in a fast and well-resolved quantitative assay.

LC/UV Conditions

Column: Kinetex 2.6µm F5
Dimensions: 100 x 2.1 mm
Part No.: 00D-4723-AN
Mobile Phase: A: 0.1 % TFA in Water
 B: Acetonitrile
Gradient: 10 to 80% B in 5 min. Hold for 1 min.
Flow Rate: 0.4 mL/min
Injection Volume: 10 µL
Temperature: Ambient
Detection: UV @ 280 nm
Sample: 1. Catechin
 2. p-Hydroxybenzaldehyde
 3. Syringic acid
 4. Epicatechin
 5. Gallic acid
 6. o-Vanillin
 7. Myricetin
 8. Resveratrol
 9. Quercetin



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Kinetex® Ordering Information

1.7 µm Minibore Columns				SecurityGuard™ ULTRA Cartridges [‡]
Phase	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
F5	00B-4722-AN	00D-4722-AN	00F-4722-AN	AJ0-9322 for 2.1 mm ID

2.6 µm Minibore Columns			SecurityGuard ULTRA Cartridges [‡]
Phase	50 x 2.1	100 x 2.1	3/pk
F5	00B-4723-AN	00D-4723-AN	AJ0-9322 for 2.1 mm ID

2.6 µm MidBore™ Columns			SecurityGuard ULTRA Cartridges [‡]
Phase	50 x 3.0	100 x 3.0	3/pk
F5	00B-4723-Y0	00D-4723-Y0	AJ0-9321 for 3.0 mm ID

2.6 µm Analytical Columns				SecurityGuard ULTRA Cartridges [‡]
Phase	50 x 4.6	100 x 4.6	150 x 4.6	3/pk
F5	00B-4723-E0	00D-4723-E0	00F-4723-E0	AJ0-9320 for 4.6 mm ID

[‡]SecurityGuard ULTRA Cartridges require holder, Part No.: AJ0-9000