

# APPLICATION



## Fast Screening Method of Organic Acids in Wine using Kinetex® F5 2.6 µm Core-Shell HPLC Column

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### Introduction

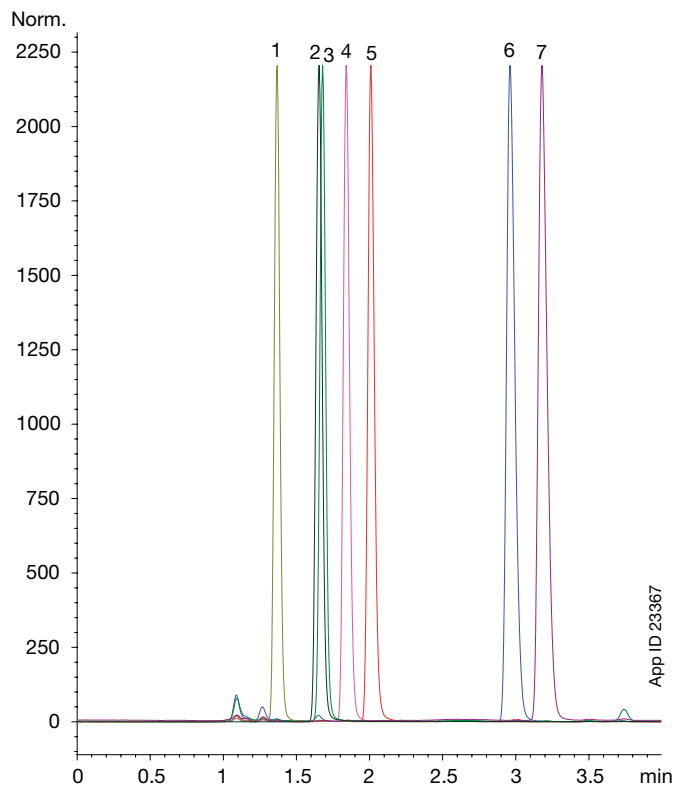
Organic acids are found in both wine and in the grapes from which they are derived. Organic acids contribute to the flavor, color, stability and balance of the wine. Typical separation modes by HPLC, include ion-exclusion and reversed phase, can result in run times exceeding 30 minutes. Presented below uses a Kinetex® F5 core-shell pentafluorophenyl phase HPLC column for screening Organic acids in wine in <5min.

### Sample Preparation

Standards were prepared in water, then diluted 1:10 in mobile phase prior to injection.

### Overlay of Organic Acids using Kinetex 2.6 µm F5

**Column:** Kinetex 2.6 µm F5, 100Å  
**Dimensions:** 150 x 4.6 mm  
**Part No.:** 00F-4723-E0  
**Mobile Phase:** 20 mM Potassium Phosphate, pH 1.6  
**Flow Rate:** 1.25 mL/min  
**Temperature:** Ambient  
**Detection:** UV @ 210 nm  
**Injection:** 10 µL  
**Sample:** 1. Tartaric Acid  
 2. Shikimic Acid  
 3. Malic Acid  
 4. Lactic Acid  
 5. Acetic Acid  
 6. Citric Acid  
 7. Succinic Acid



## Ordering Information Kinetex

2.6 µm Analytical Columns (mm)	SecurityGuard™ ULTRA Cartridges†					
	30 x 4.6	50 x 4.6	75 x 4.6	100 x 4.6	150 x 4.6	3/pk
EVO C18	—	00B-4725-E0	—	00D-4725-E0	00F-4725-E0	AJO-9296
F5	—	00B-4723-E0	—	00D-4723-E0	00F-4723-E0	AJO-9320
Biphenyl	—	00B-4622-E0	—	00D-4622-E0	00F-4622-E0	AJO-9207
XB-C18	—	00B-4496-E0	00C-4496-E0	00D-4496-E0	00F-4496-E0	AJO-8768
C18	00A-4462-E0	00B-4462-E0	00C-4462-E0	00D-4462-E0	00F-4462-E0	AJO-8768
C8	—	00B-4497-E0	00C-4497-E0	00D-4497-E0	00F-4497-E0	AJO-8770
HILIC	—	00B-4461-E0	00C-4461-E0	00D-4461-E0	00F-4461-E0	AJO-8772
Phenyl-Hexyl	—	00B-4495-E0	00C-4495-E0	00D-4495-E0	00F-4495-E0	AJO-8774

for 4.6 mm ID



View more column dimensions and particle sizes at  
[www.phenomenex.com/Kinetex](http://www.phenomenex.com/Kinetex)



If Kinetex core-shell columns do not provide at least an equivalent separation as compared to a competing column of the same phase, return the column with the comparative data within 45 days for a FULL REFUND.

### Terms and Conditions

Subject to Phenomenex Standard Terms & Conditions, which may be viewed at [www.phenomenex.com/TermsAndConditions](http://www.phenomenex.com/TermsAndConditions).

### Trademarks

Kinetex is a registered trademark and SecurityGuard is a trademark of Phenomenex.

### Disclaimer

Dimensions and chromatographic conditions are the same for all columns unless otherwise noted.

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