

# HPLC Application

ID No.: 14099

## Malic acid

**Column:** Chirex<sup>®</sup> 3126 (D)-penicillamine, LC Column 50 x 4.6 mm, Ea  
**Dimensions:** 50 x 4.6 mm ID  
**Order No:** 00B-3126-E0  
**Elution Type:** Isocratic  
**Eluent A:** 1 mM Copper (II) acetate and 0.1 M ammonium acetate in water  
**Eluent B:** Isopropanol [pH 4.5]  
**Gradient**

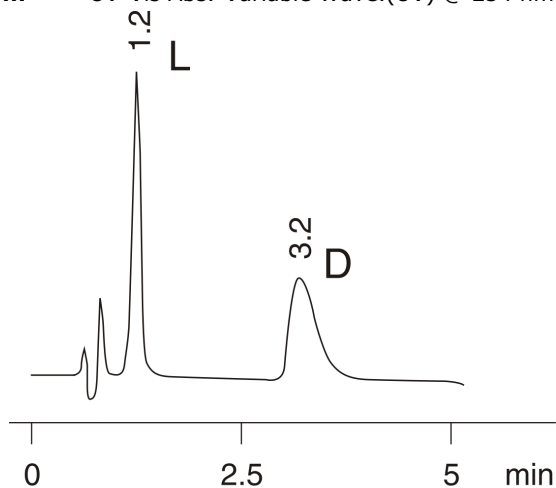
Step No.	Time (min)	Pct A	Pct B
1	0	85	15

**Profile:**  
**Flow Rate:** 1 mL/min  
**Col. Temp.:** ambient  
**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 254 nm (ambient)



Products used in this application:

**CHIREX**<sup>®</sup>



$$\alpha = 3.60$$

### ANALYTES:

- 1 L-Malic acid  
Retention Time: 1.22 min
- 2 D-Malic acid  
Retention Time: 3.17 min

