

# HPLC Application

ID No.: 14473

## EPA Method 553, Benzidines and Nitrogen-Containing Pesticides

**Column:** Luna® 5 µm C18(2) 100 Å, LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4252-E0

**Elution Type:** Gradient

**Eluent A:** 10mM Ammonium Acetate:Acetonitrile (75:25)

**Eluent B:** Acetonitrile

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | 0          | 75    | 25    |
|                   | 2        | 1          | 75    | 25    |
|                   | 3        | 29         | 40    | 60    |
|                   | 4        | 49         | 40    | 60    |

**Flow Rate:** 0.3 mL/min

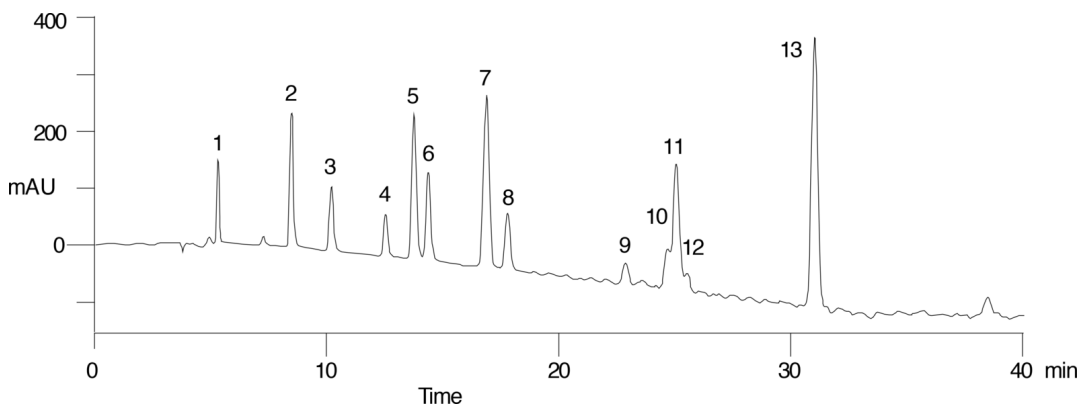
**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 210 nm (ambient)

**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, C18 4 x 3.0mm, 10/Pk Part No.: AJ0-4287

- Holder Part No.: KJ0-4282



Products used in this application:



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### ANALYTES:

- 1** Benzidine
- 2** Benzoylprop ethyl
- 3** Caffeine
- 4** Carbaryl
- 5** o-Chlorophenyl thiourea
- 6** 3,3'-Dichlorobenzidine
- 7** 3,3'-Dimethoxybenzidine
- 8** 3,3'-Dimethylbenzidine
- 9** Diuron
- 10** Linuron
- 11** Monuron
- 12** Rotenone
- 13** Siduron

