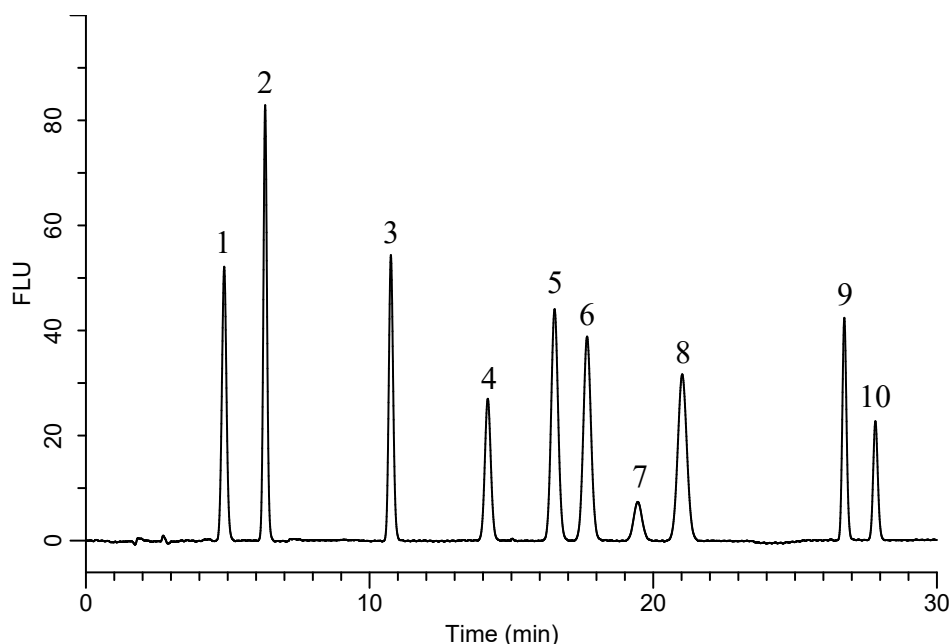


# InertSearch™ for LC

Inertsil® Applications

## Analysis of Carbamate insecticides – InertSustain C18 (Directed by Post-Column Method with OPA)

Data No. LA916-0894



### Conditions

**System** : GL-7400 HPLC system  
**Column** : InertSustain C18 (5 $\mu$ m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-07346  
**Eluent** : A) CH<sub>3</sub>OH  
B) H<sub>2</sub>O  
A/B = 35/65 – 2 min – 35/65 – 0.1 min – 53/47  
- 18.4 min – 53/47 – 0.1 min – 70/30 – 9.4 min  
- 70/30 – 0.1 min – 35/65 – 9.9 min – 35/65, v/v

**Flow rate** : 1.0 mL/min  
**Reaction Reagent** : OPA reagent\*  
**Col. Temp.** : 40 °C

**Detection** : FL Ex 339 nm Em 455 nm (0 min)  
Ex 312 nm Em 382 nm (18.6 min)  
Ex 339 nm Em 455 nm (20.2 min)  
(GL-7453A FL Detector)

**Injection Vol.** : 10  $\mu$ L  
**Sample** : Pesticides

### Analyte:

1. Oxamyl	1.0 mg/L
2. Methomyl	1.0 mg/L
3. Aldicarb	1.0 mg/L
4. Bendiocarb	1.0 mg/L
5. Carbaryl	1.0 mg/L
6. Ethiofencarb	1.0 mg/L
7. Pirimicarb	1.0 mg/L
8. Isoprocarb	1.0 mg/L
9. Fenobucarb	1.0 mg/L
10. Methiocarb	1.0 mg/L

\* Dissolve 0.2 g of o-Phthalaldehyde in 2.5 mL of methanol, and add 0.05 mol/L sodium tetraborate aqueous solution to make 250 mL. After sonicating this solution, add 0.5 mL of 2-Mercaptoethanol.