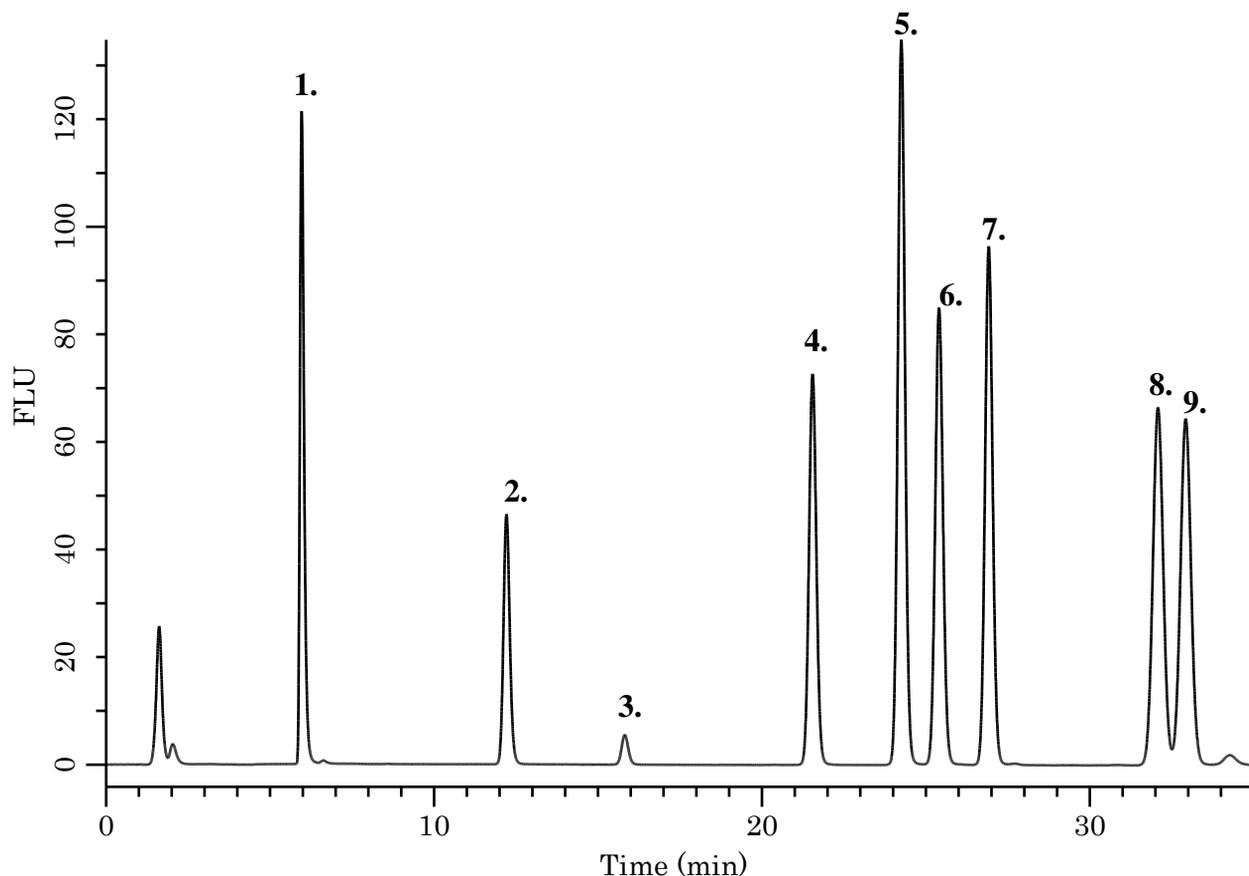


## Analysis of carbamate insecticides (Detected by post-column method with OPA)



### Conditions

**System** : GL-7400 HPLC system  
**Column** : Inertsil ODS-3 (5 $\mu$ m, 150 x 4.0 mm I.D.)  
**Column Cat. No.** : 5020-01761  
**Eluent** : A) THF  
           B) CH<sub>3</sub>OH  
           C) H<sub>2</sub>O  
           A/B/C = 0/12/88 - 0.1 min - 0/12/88 - 0.1 min - 10/0/90  
           - 22.8 min - 33/0/67 - 12.0 min - 33/0/67 - 0.1 min - 0/12/88  
           - 9.8 min - 0/12/88  
**Flow rate** : 1.0 mL/min  
**Reaction Reagent** : OPA発蛍光液\*  
                           (Post-Column Derivatization)  
**Col. Temp.** : 40 °C  
**Detection** : Ex 339nm Em 445 nm (GL-7453A FL Detector)  
**Injection Vol.** : 100  $\mu$ L  
**Sample** : Pesticides

### Analyte:

1. Oxamyl	(1.0 $\mu$ g/mL)
2. Aldicarb	(1.0 $\mu$ g/mL)
3. Pirimicarb	(1.0 $\mu$ g/mL)
4. Bendiocarb	(1.0 $\mu$ g/mL)
5. Carbaryl	(1.0 $\mu$ g/mL)
6. Ethiofencarb	(1.0 $\mu$ g/mL)
7. Isoprocarb	(1.0 $\mu$ g/mL)
8. Fenobcarb	(1.0 $\mu$ g/mL)
9. Methiocarb	(1.0 $\mu$ g/mL)

\* 発蛍光溶液: o-フタルアルデヒド10 mg及び2-メルカプトエタノール5  $\mu$ Lに0.05 mol/Lホウ酸ナトリウム溶液を加えて100 mLとしたもの。