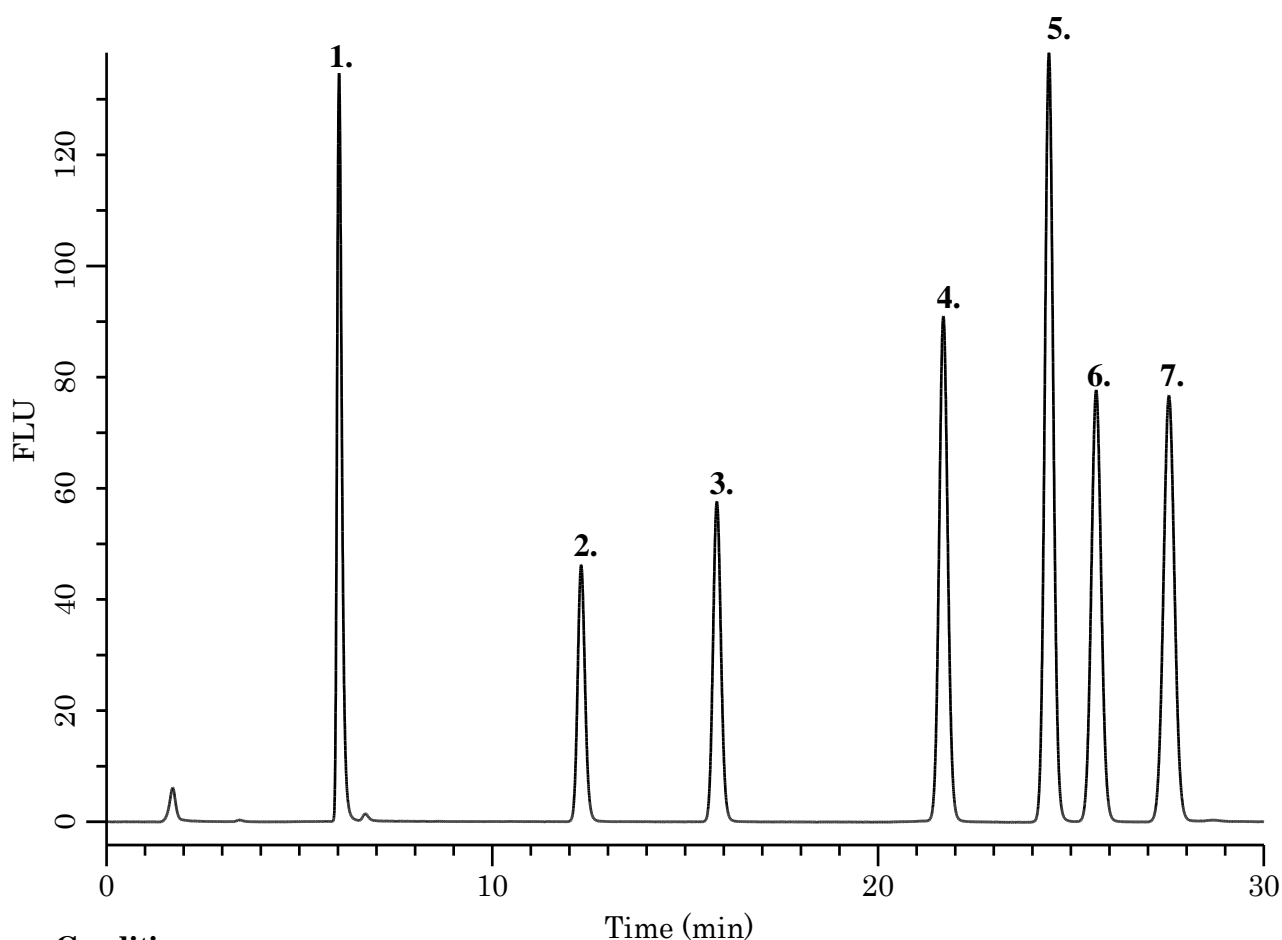


Analysis of carbamate insecticides (Ditected by post-column method with OPA)



Conditions

System : GL-7400 HPLC system
Column : Inertsil ODS-3 (5 μ m, 150 x 4.0 mm I.D.)
Column Cat. No. : 5020-01761
Eluent : A) THF
 B) CH₃OH
 C) H₂O
 A/B/C = 0/12/88 - 0.1 min - 0/12/88 - 0.1 min - 10/0/90
 - 19.9 min - 30/0/70 - 10.0 min - 30/0/70 - 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 μ L
Sample : Pesticides

Analyte:

1. Oxamyl (1.0 μ g/mL)
2. Aldicarb (1.0 μ g/mL)
3. Pirimicarb (1.0 μ g/mL)
4. Bendiocarb (1.0 μ g/mL)
5. Carbaryl (1.0 μ g/mL)
6. Ethiofencarb (1.0 μ g/mL)
7. Isoprocarb (1.0 μ g/mL)

* 発蛍光溶液: o-フタルアルデヒド10 mg及び β 2-メルカプトエタノール5 μ 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。