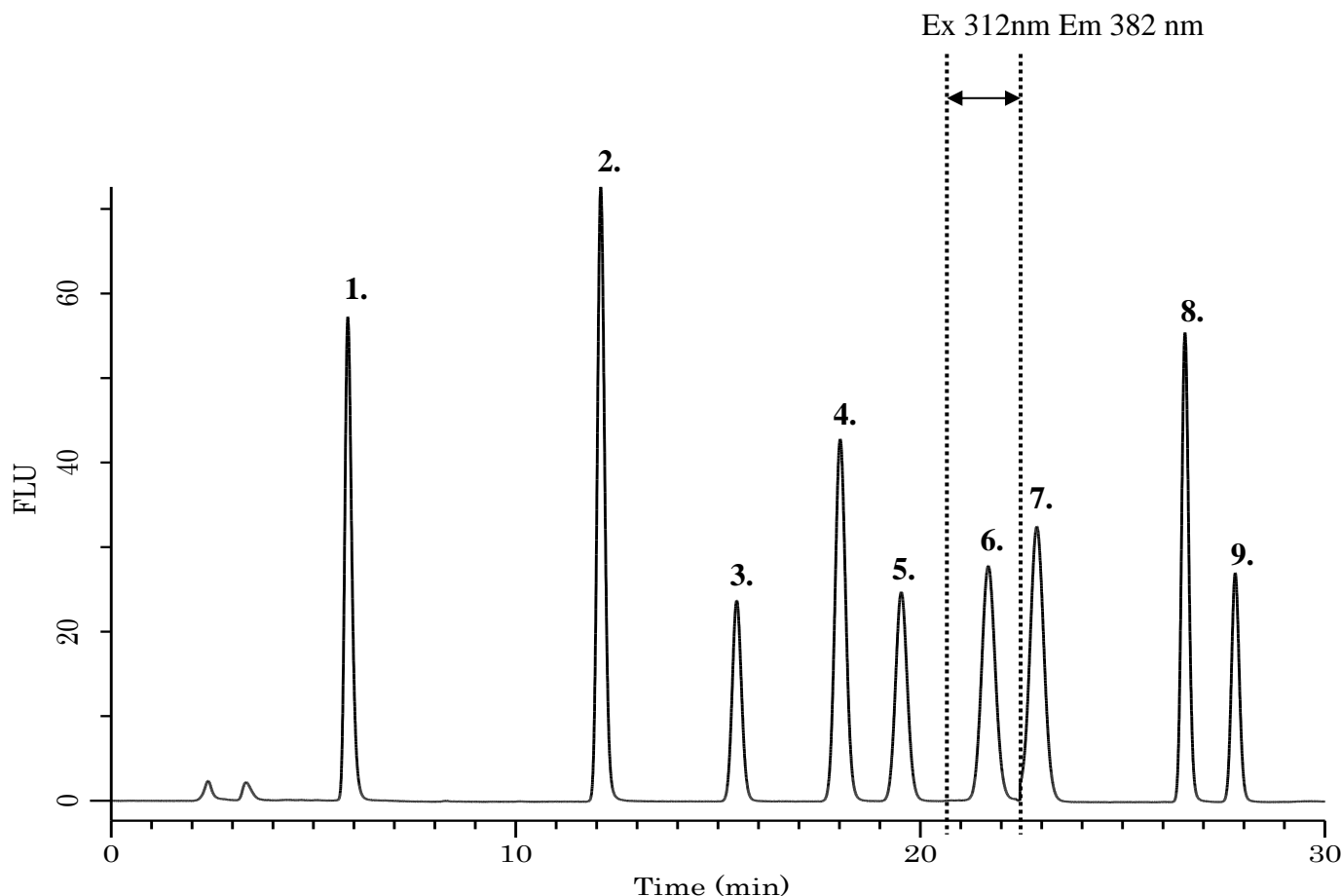


Analysis of carbamate insecticides (Ditected by post-column method with OPA)



Conditions

System : GL-7400 HPLC system
Column : Inertsil ODS-3 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-01732
Eluent : A) CH₃OH
 B) H₂O
 A/B = 35/65 - 2 min - 35/65 - 0.1 min - 53/47
 - 18.4 min - 53/47 - 0.1 min - 70/30 - 6.4 min - 70/30
 - 0.1 min - 35/65 - 14.9 min - 35/65
Flow rate : 1.0 mL/min
Reaction Reagent : OPA発蛍光液*
 (Post-Column Derivatization)
Col. Temp. : 40 °C
Detection : Ex 339 nm Em 445 nm (0 min)
 Ex 312 nm Em 382 nm (20.5 min)
 Ex 339 nm Em 445 nm (22.3 min)
 (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. Bendiocarb	(1.0 μ g/mL)
4. Carbaryl	(1.0 μ g/mL)
5. Ethiofencarb	(1.0 μ g/mL)
6. Pirimicarb	(1.0 μ g/mL)
7. Isoprocarb	(1.0 μ g/mL)
8. Fenobcarb	(1.0 μ g/mL)
9. Methiocarb	(1.0 μ 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 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。