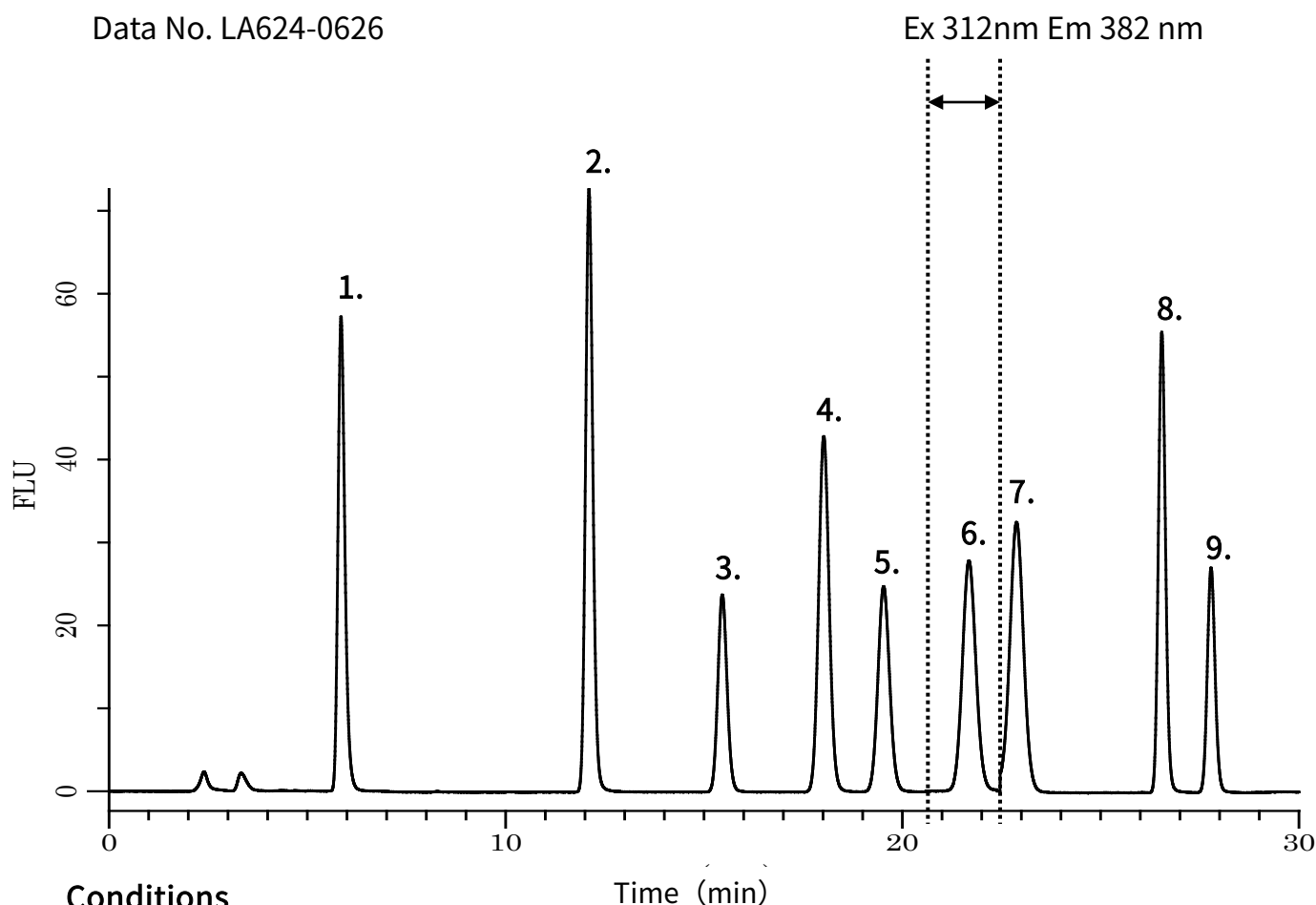


InertSearch™ for LC

Inertsil® Applications

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

Data No. LA624-0626



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。