

バニリンとイソバニリンの分離

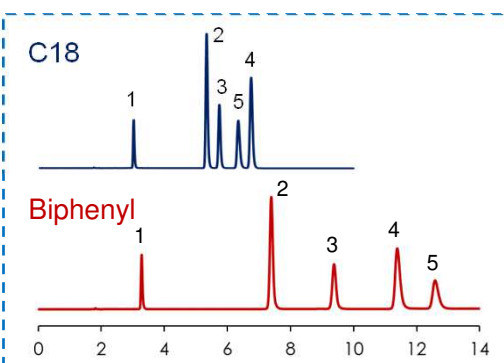
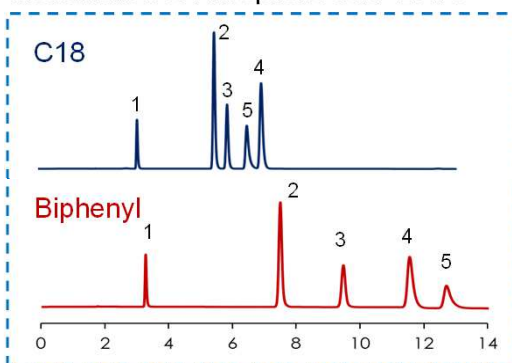
SunShell C18 2.6 μm, 150 x 4.6 mm i.d.

Vanilin and Isovanilin

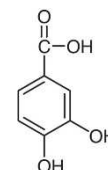
SunShell Biphenyl 2.6 μm, 150 x 4.6 mm i.d.

Methanol:0.1% Phosphoric acid=25:75

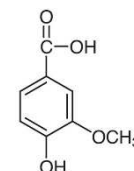
Methanol:0.1% Trifluoroacetic acid=25:75



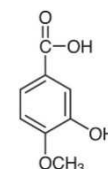
1. Protocatechuic Acid



2. Vanillic Acid

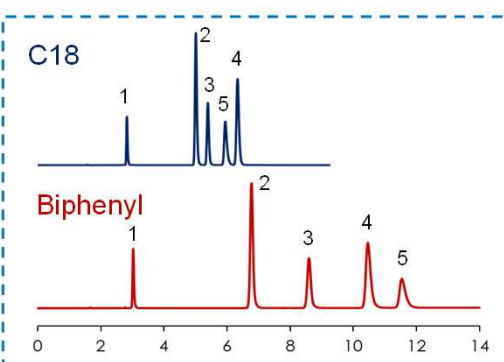
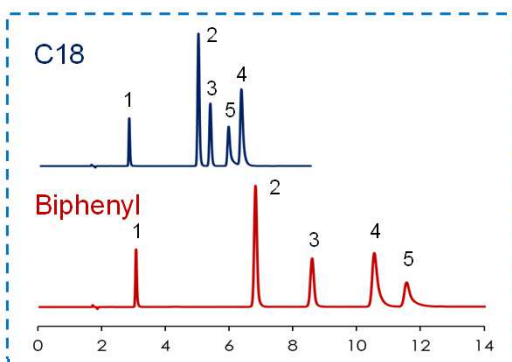


3. Isovanillic Acid

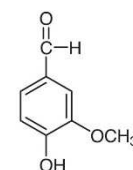


Methanol:0.2% formic acid=25:75

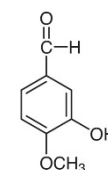
Methanol:0.05% Trifluoroacetic acid=25:75



4. Vanillin

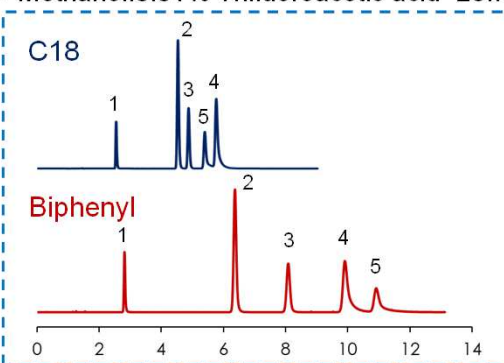
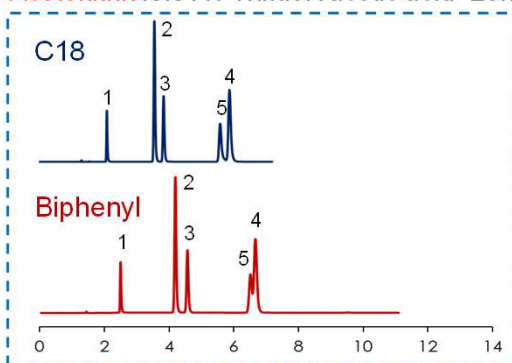


5. Isovanillin



Acetonitrile:0.01% Trifluoroacetic acid=25:75

Methanol:0.01% Trifluoroacetic acid=25:75



Retention time/min

Retention time/min

Column: SunShell C18 2.6 μm, 150 x 4.6 mm i.d.

SunShell Biphenyl 2.6 μm, 150 x 4.6 mm i.d.

Mobile phase: shown in figures

Flow rate: 1.0 mL/min

Temperature: 40 °C

Detection: UV@250 nm

Sample: 1 = Protocatechuic Acid, 2 = Vanillic Acid, 3 = Isovanillic Acid, 4 = Vanillin, 5 = Isovanillin