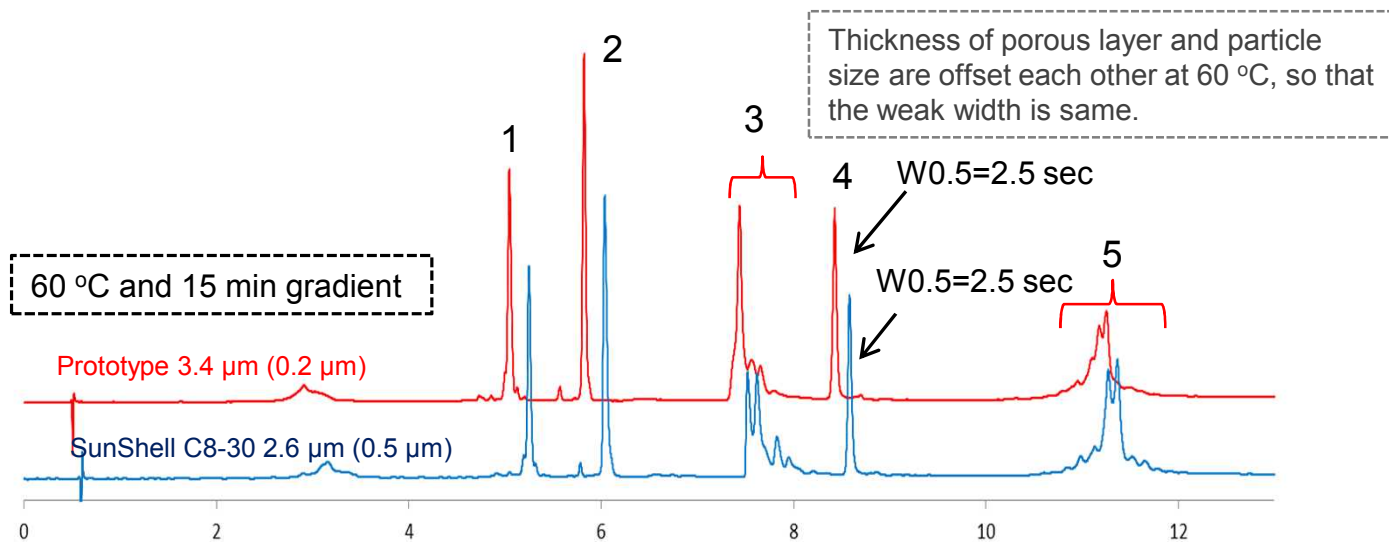
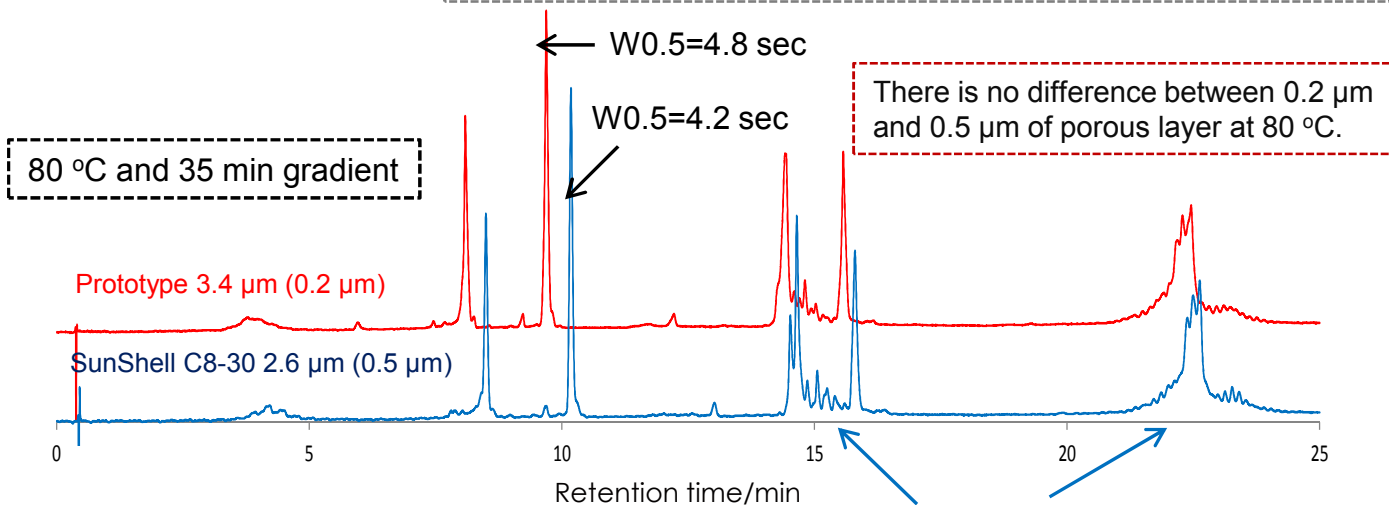


タンパク質の分離 (多孔質層の厚さの比較)

Proteins Comparison of thickness of porous layer SunShell C8-30 2.6 μm , 100 x 2.1 mm i.d.



The difference of retention time between two phases is due to a specific surface area.



Surface area works well for separation.

Column:

SunShell C8-30 2.6 μm (30 nm), 100 x 2.1 mm
 Prototype C8-30 3.4 μm (30 nm), 100 x 2.1 mm

Mobile phase: A) 0.1% TFA in water

B) 0.08 % TFA in acetonitrile

Gradient program: Time 0 min 15 , 35min

%B 20% 65%

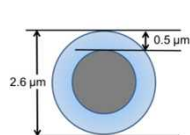
Flow rate: 0.5 mL/min

Temperature: 80 °C

Detection: UV@215 nm

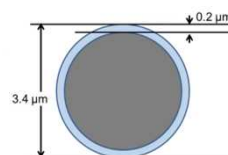
Sample: 1 = Cytochrome C, 2 = Lysozyme, 3 = BSA, 4 = Myoglobin, 5 = Ovalbumin

SunShell particle



Particle size: 2.6 μm
 Thickness of porous layer: 0.5 μm
 Specific surface area: 40 m^2/g

Prototype particle



Particle size: 3.4 μm
 Thickness of porous layer: 0.2 μm
 Specific surface area: 15 m^2/g