

ADC vs. Free Drug Separation and Analysis



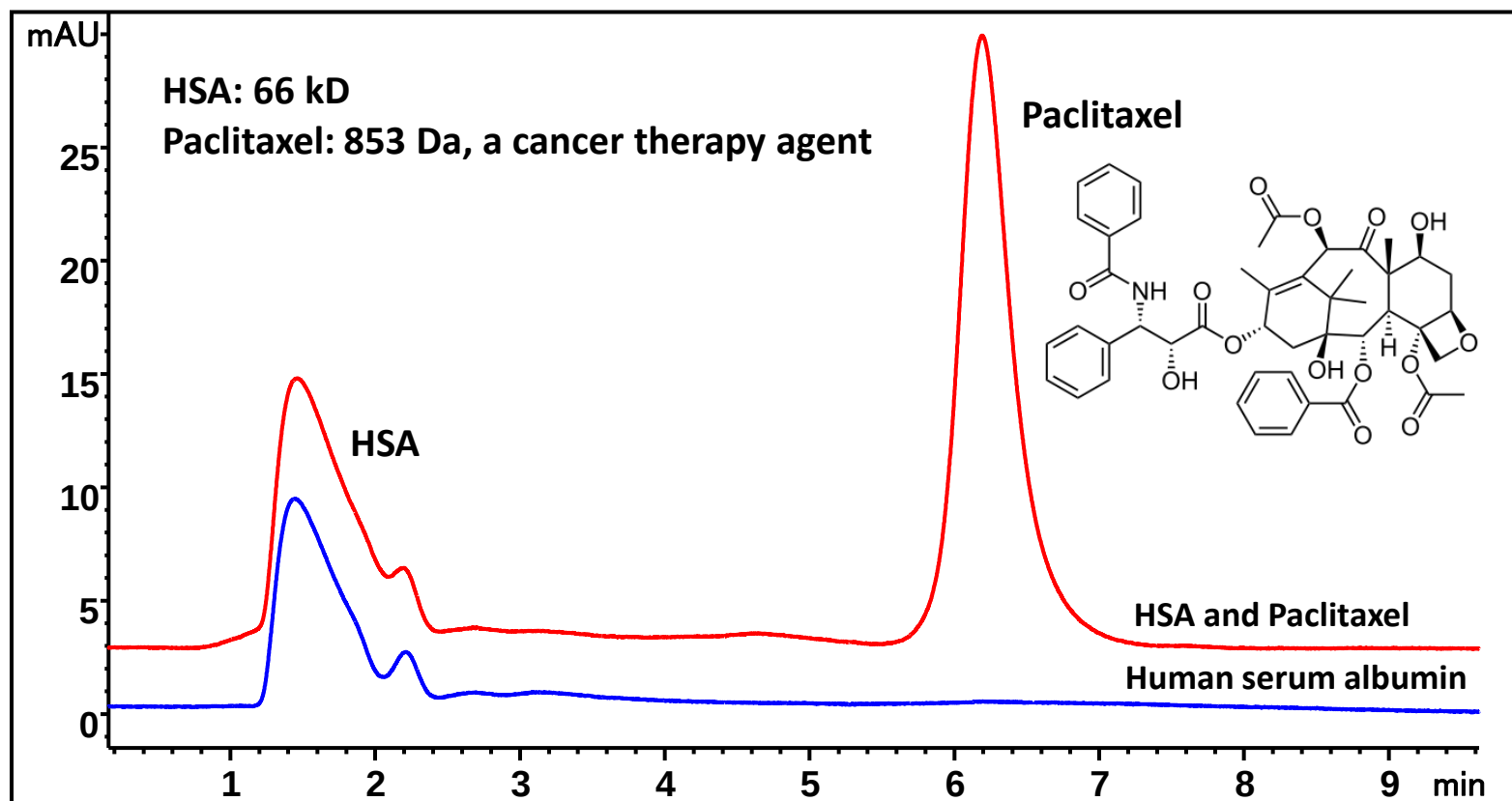
Human serum albumin and Paclitaxel analysis on Zenix-80 (2105)

Column: Zenix® SEC-80 (3 μm , 80 Å, 2.1 x 50 mm)

Mobile phase: 50 mM NH_4Ac : ACN = 70 : 30 (v/v)

Flow rate: **0.1 mL/min**; Detection: UV 228 nm; Column temperature: 25 °C

Injection volume: 0.1 μL ; Sample: Human Albumin, 2.0 mg/mL Human Albumin/paclitaxel in water



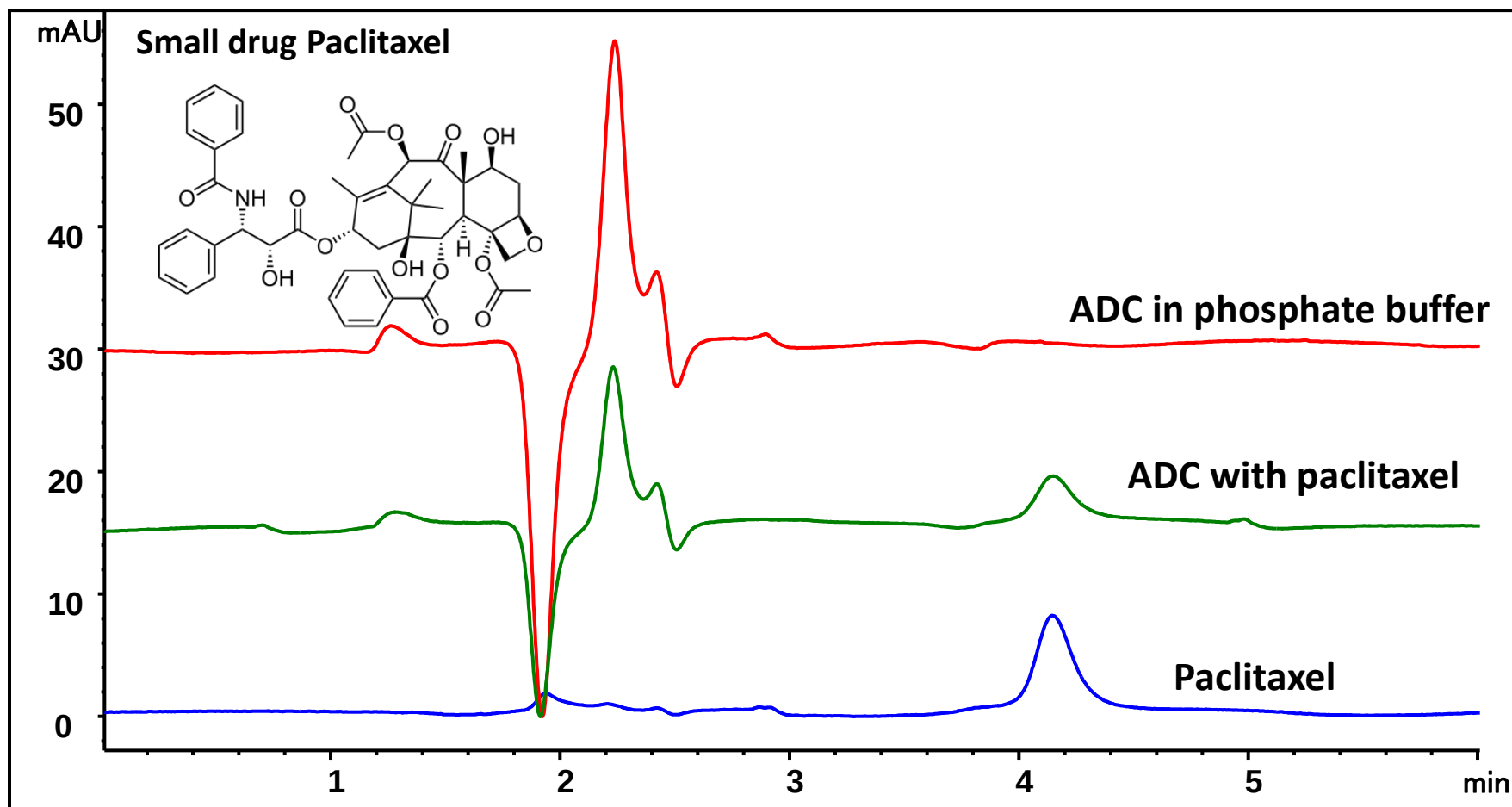
ADC and free drug Paclitaxel Analysis on Zenix®-C SEC-80 (4605)

Column: Zenix®-C SEC-80 (3 μm , 80 $\text{\AA}$, 4.6 x 50 mm)

Mobile phase: 50 mM NH_4Ac : ACN = 80 : 20 (v/v), Flow rate: 0.3 mL/min,

Detector: UV 228 nm, Column temperature: 25 $^\circ\text{C}$,

Injection volume: 2 μL , Samples: See below, Pressure: 21 bar



ADC and free drug are separated with volatile buffer and short SEC columnn.

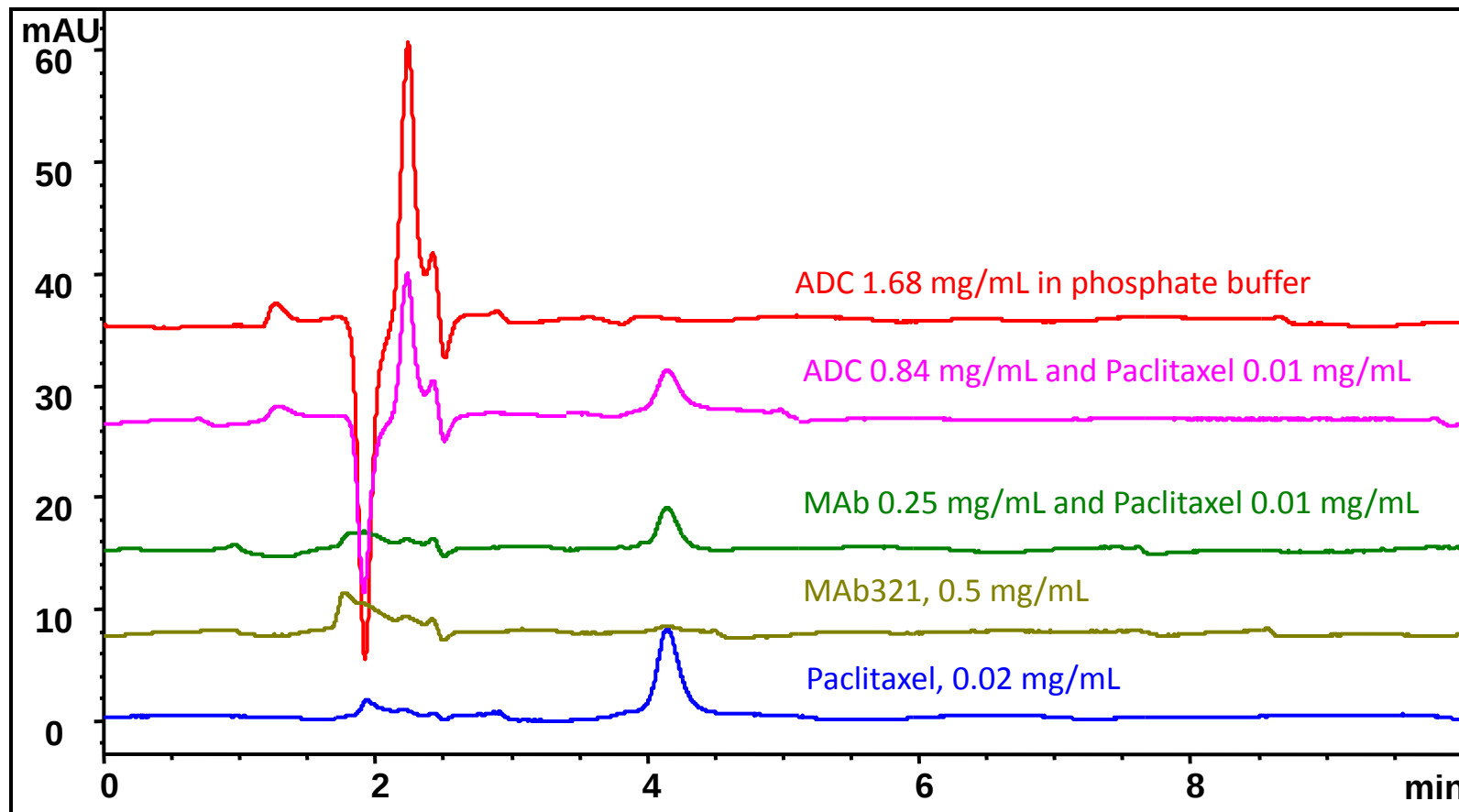
mAb, ADC and Paclitaxel Analysis on Zenix®-C SEC-80 (4605)

Column: Zenix®-C SEC-80 (3 μm , 80 $\text{\AA}$, 4.6 x 50 mm)

Mobile phase: 50 mM NH_4Ac : ACN = 80 : 20 (v/v), Flow rate: 0.3 mL/min,

Detector: UV 228 nm, Column temperature: 25 $^\circ\text{C}$,

Injection volume: 2 μL , Samples: See below, Pressure: 21 bar



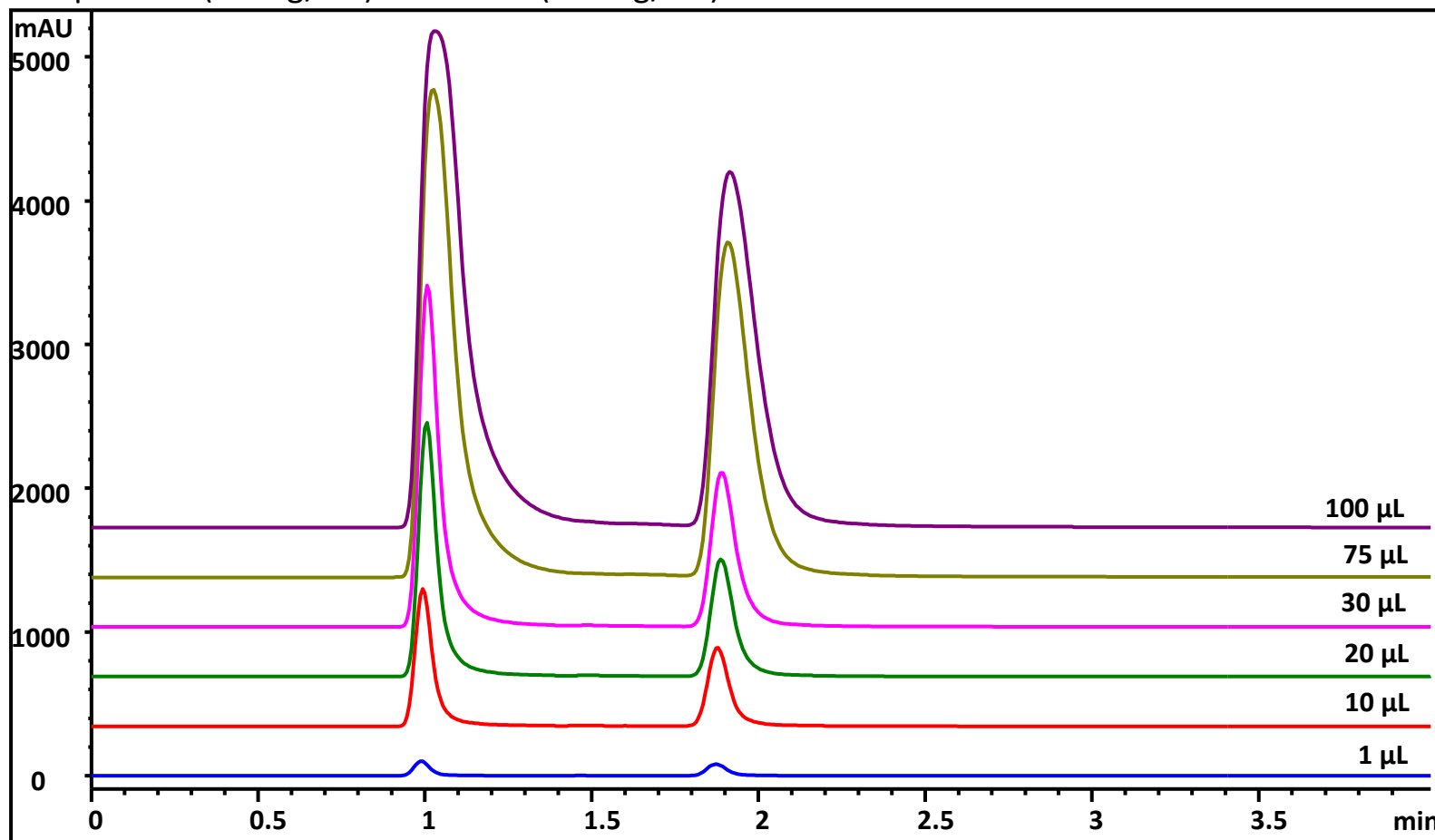
Overlay of BSA and Uracil on Zenix SEC-80 7.8x50mm

Column: Zenix® SEC-80, 7.8 x 50 mm

Flow rate: 1.0 mL/min, Detection: UV 280nm

Mobile phase: 150 mM sodium phosphate buffer pH 7.0

Sample: BSA (10 mg/mL) and Uracil (0.5 mg/mL)



Larger diameter and short 50 mm column allows higher loading for large and small biomolecule separation or desalting.

Product information

Column	Part number
Zenix [®] SEC-80 (3 μm , 80 Å, 2.1 x 50 mm)	213080-2105
Zenix [®] SEC-80 (3 μm , 80 Å, 7.8 x 50 mm)	213080-7805
Zenix [®] -C SEC-80 (3 μm , 80 Å, 4.6 x 50 mm)	233080-4605