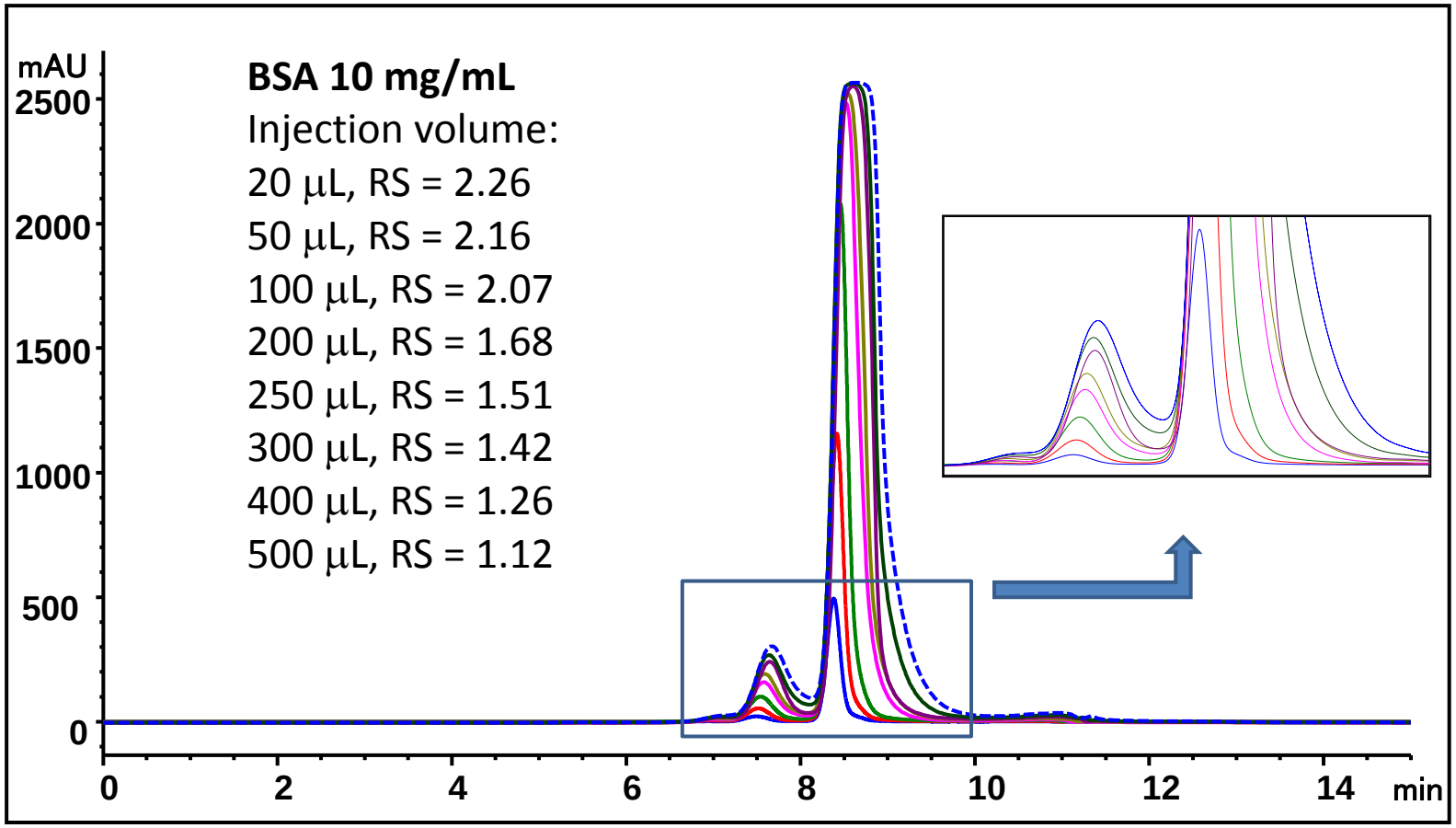
Sepax SEC Analytical Column Loading Capacity

PN#	Column Type	Capacity
213300-7830	Zenix SEC-300, 3 µm, 300 A 7.8 x 300	3 mg BSA
215300-7830	SRT SEC-300, 5 µm, 300 A7.8 x 300	1 mg BSA

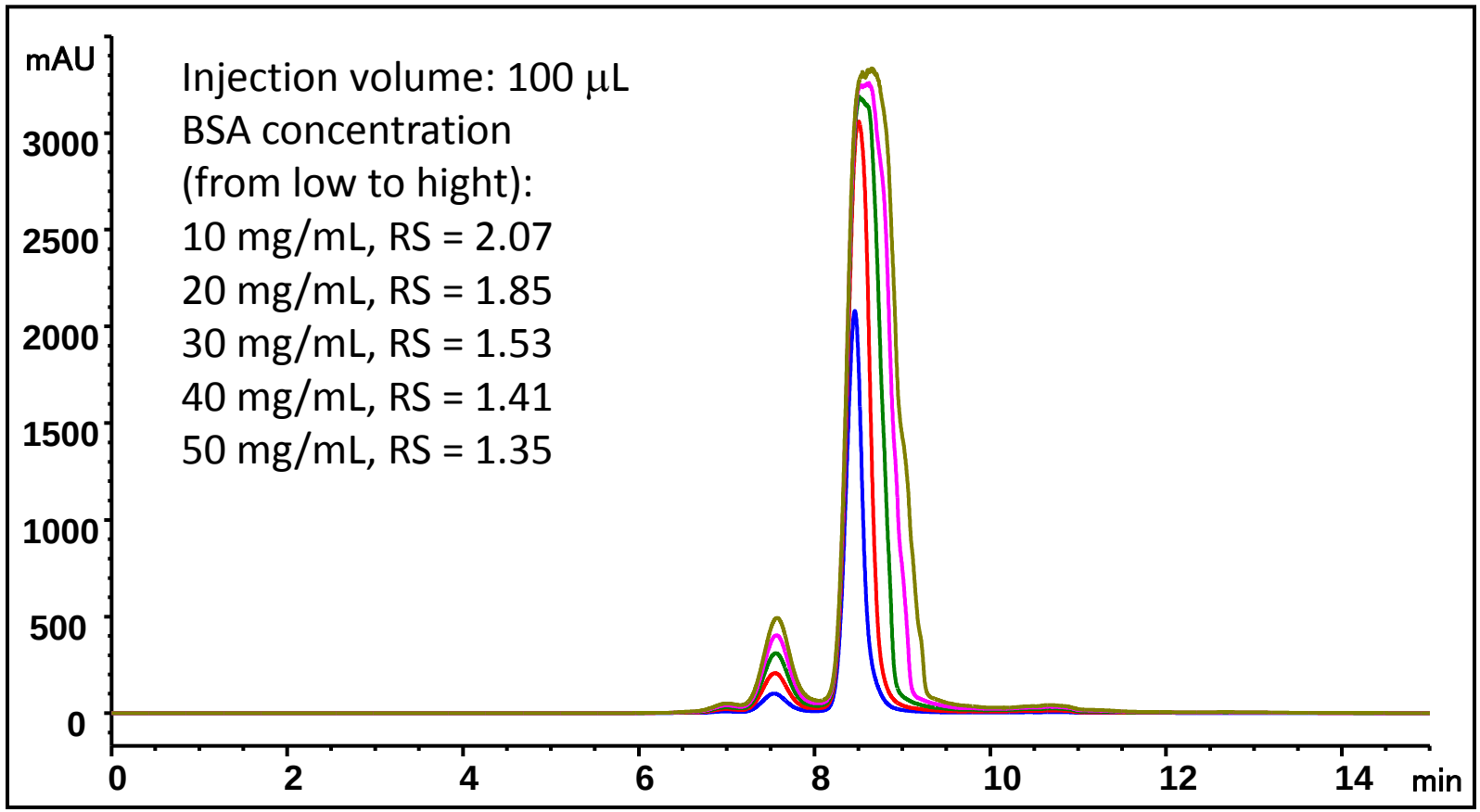
Zenix SEC-300 7.8 x 300 mm



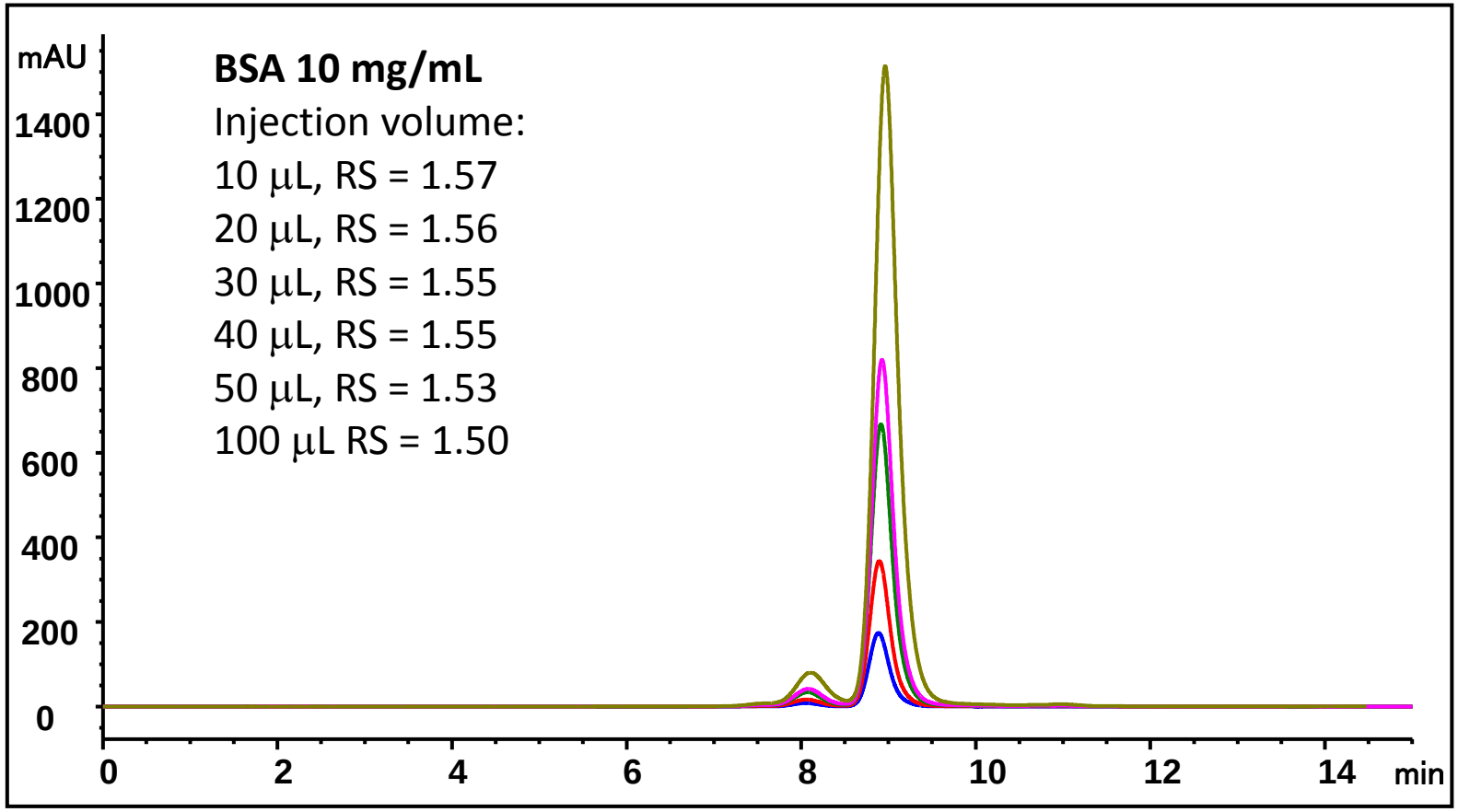
Sample: BSA, 10 mg/mL, zenix 300, 7830, 1mL/min, 150mM PB, pH7.0 (250 µL at 10mg/ml is the capacity, resolution between dimer and monomer is 1.51 for baseline separation. 2.5mg BSA loading is the capacity at 10mg/ml injection concentration.)

Zenix-300 with different concentration of BSA

Column: Zenix SEC-300, 7.8x300mm,
Flow rate 1mL/min, Mobile phase: 150mM phosphate buffer, pH 7.0,
Detection: UV280nm, Injection: 100 mL.
At higher concentration, loading capacity is at 3 mg.

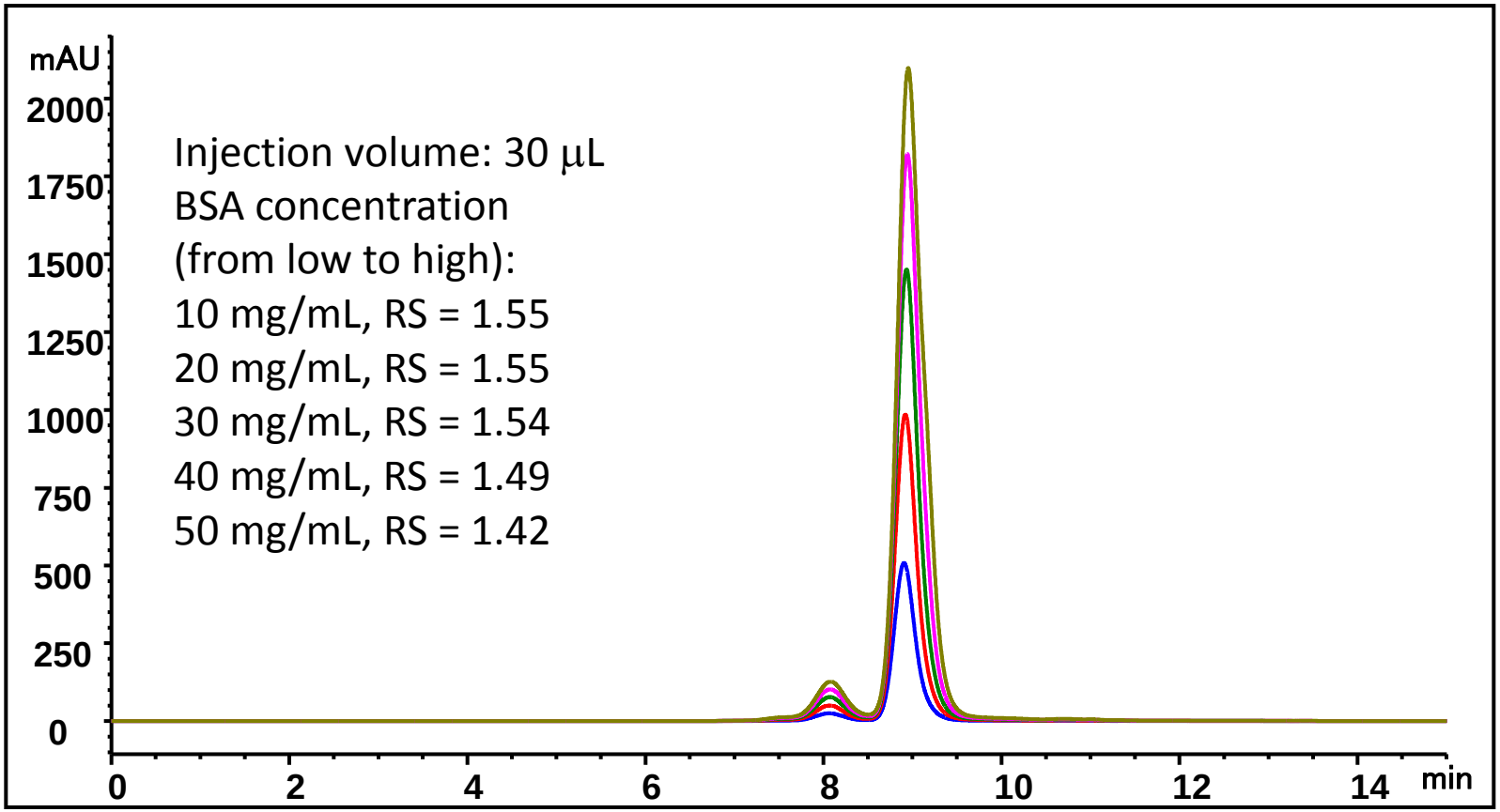


SRT SEC-300, 7.8 x 300 mm



Sample: BSA, 10 mg/mL, SRT 300, 7830, 1mL/min, 150mM PB, pH7.0 (100 µL at 10mg/ml is the capacity, resolution between dimer and monomer is 1.5 for baseline separation.)

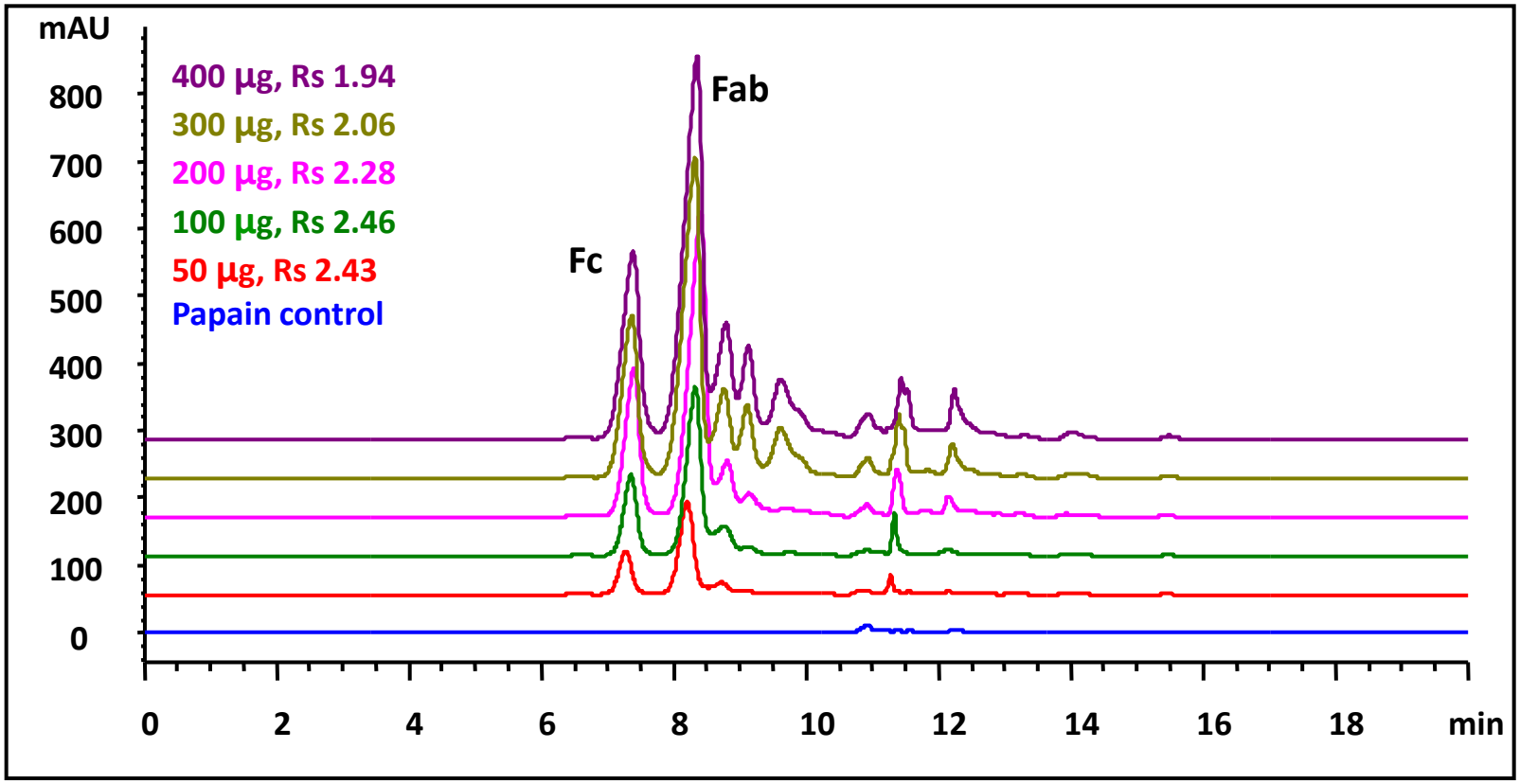
SRT SEC-300, 7.8 x 300 mm with different concentrations of BSA



Sample: BSA, SRT 300, 7830, 1mL/min, 150mM PB, pH7.0 (30 µL at 40 mg/ml is the capacity, resolution between dimer and monomer is 1.5 for baseline separation. At higher protein concentration, with less injection volume, BSA loading capacity is higher at 1.2 mg)

Papain digested mAb loading test on Zenix SEC-300

Column: Zenix SEC-300 (3 µm, 300Å, 7.8 x 300 mm),
Mobile phase: 0.1% formic acid, 0.1% TFA, 20% ACN in water
Flow rate: 1 mL/min, 87 bar
Detector: UV 280 nm, Column temperature: 25 °C, Samples: papain digested Mab



Papain digestion:
2mM EDTA, 5 mM Cysteine, 100 mM Tris-HCl, pH 7.6, mAb 4 mg/mL, 3.5 hours incubation at 37 °C

Papain digested mAb loading test on Zenix SEC-300

Column: Zenix SEC-300 (3 µm, 300Å, 7.8 x 300 mm)
Mobile phase: 0.1% formic acid, 0.1% TFA, 20% ACN in water
Flow rate: 1 mL/min, 87 bar
Detector: UV 280 nm, Column temperature: 25 ℃
Samples: as indicated