E. Coli lysate separation

SEC, IEX-SAX, Reversed-Phase

E. Coli lysate separation

Size exclusion chromatography

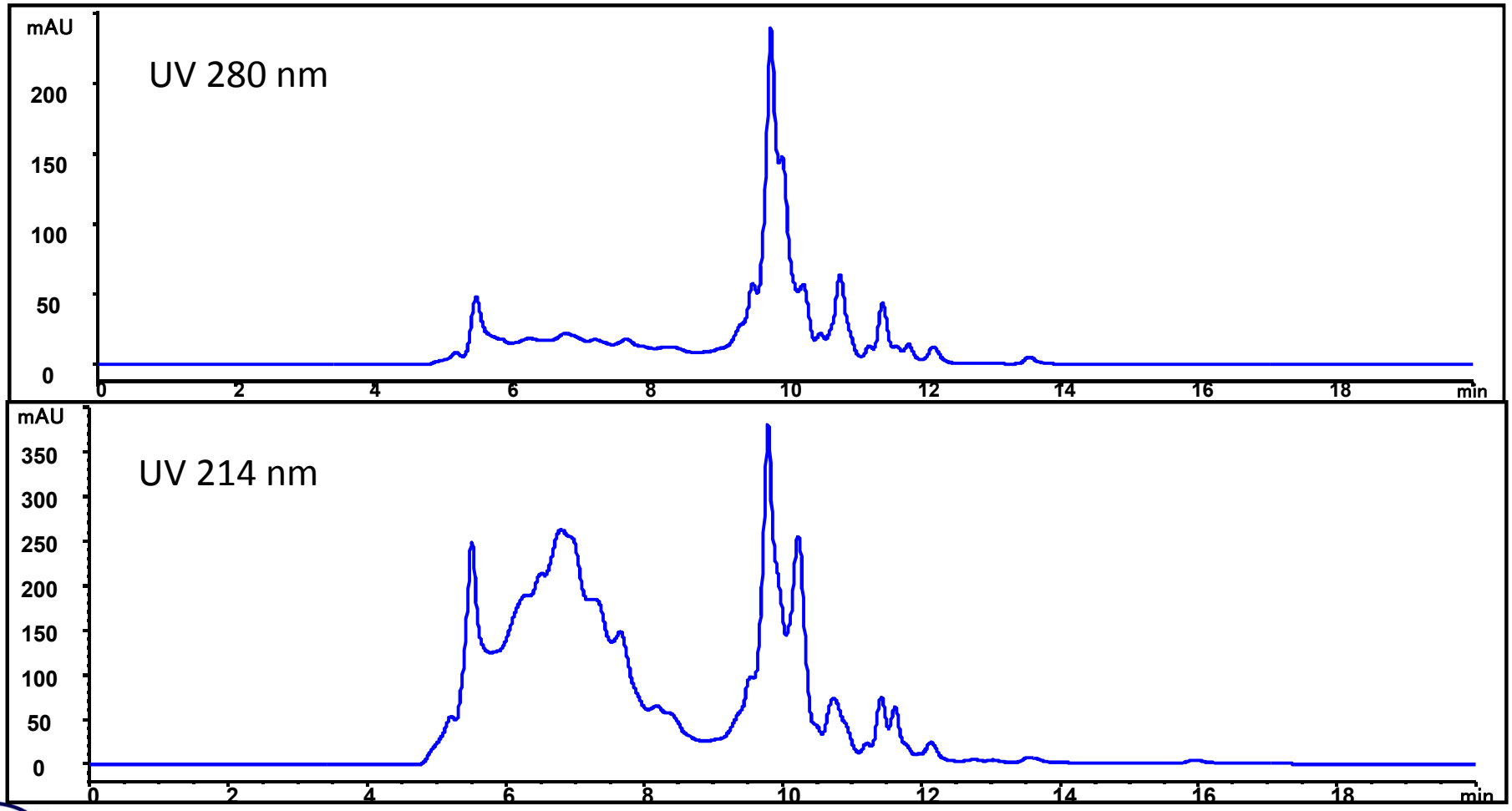
Zenix® SEC-150 (3 µm, 150 Å, 7.8 x 300 mm);

Zenix® SEC-300 (3 µm, 300 Å, 7.8 x 300 mm);

Two columns in tandem

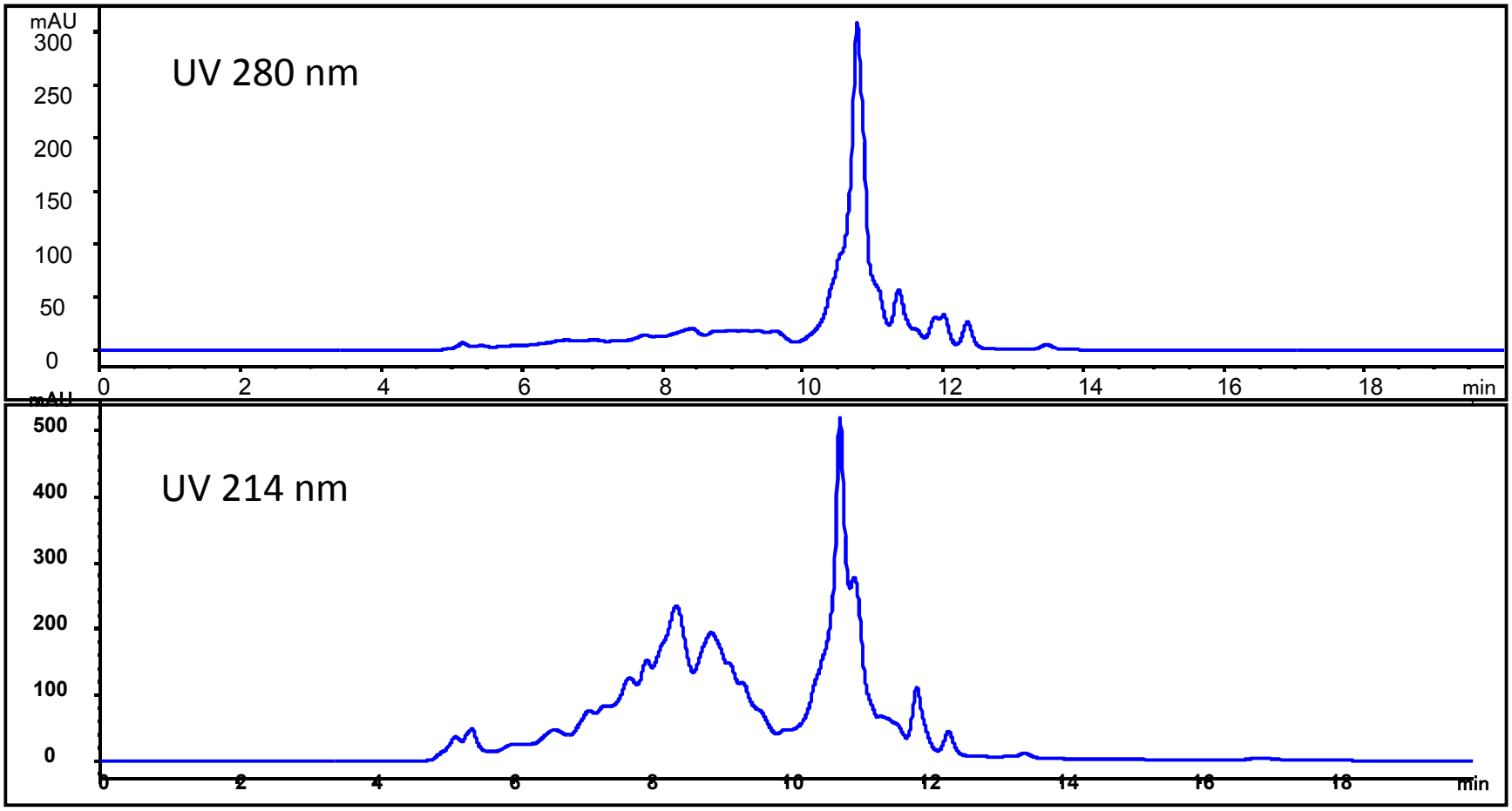
Separation of E.coli lysate *Bio-rad* #163-2110 Zenix SEC-150

Column: Zenix® SEC-150 (3 µm, 150 Å, 7.8 x 300 mm);
Mobile phase: 150mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 1 mL/min; Detector: UV 280, 214 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 10 µL



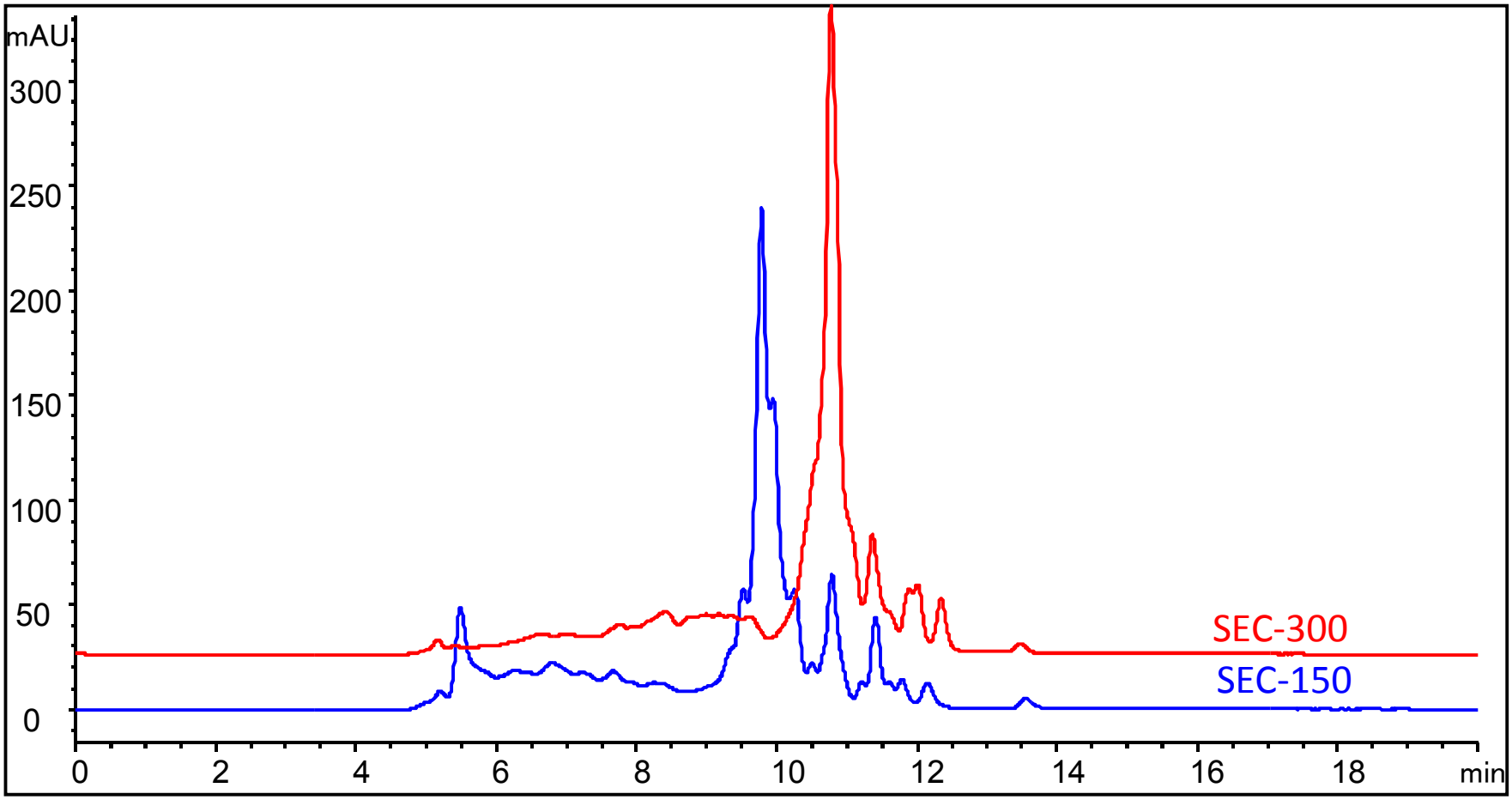
Separation of E.coli lysate *Bio-rad* #163-2110 Zenix SEC-300

Column: Zenix® SEC-300 (3 µm, 300 Å, 7.8×300 mm);
Mobile phase: 150mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 1 mL/min; Detector: UV 280 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 10 µL



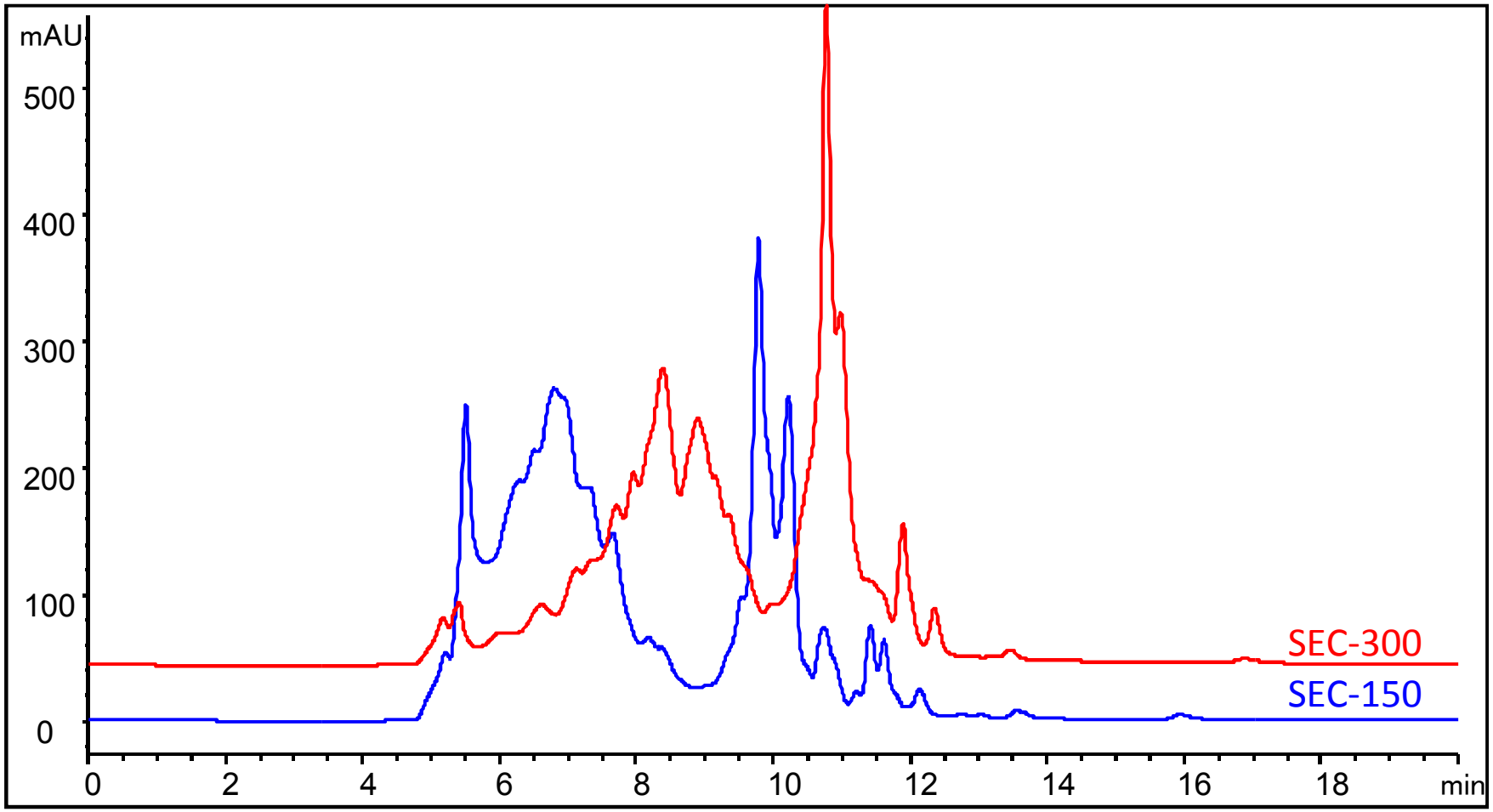
Overlay of SEC-150 and SEC-300 for E. coli lysate separation-UV280 nm

Column: Zenix® SEC-150 (3 µm, 150 Å, 7.8×300 mm); Zenix® SEC-300 (3 µm, 300 Å, 7.8×300 mm);
Mobile phase: 150mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 1 mL/min; Detector: UV 280 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 10 µL



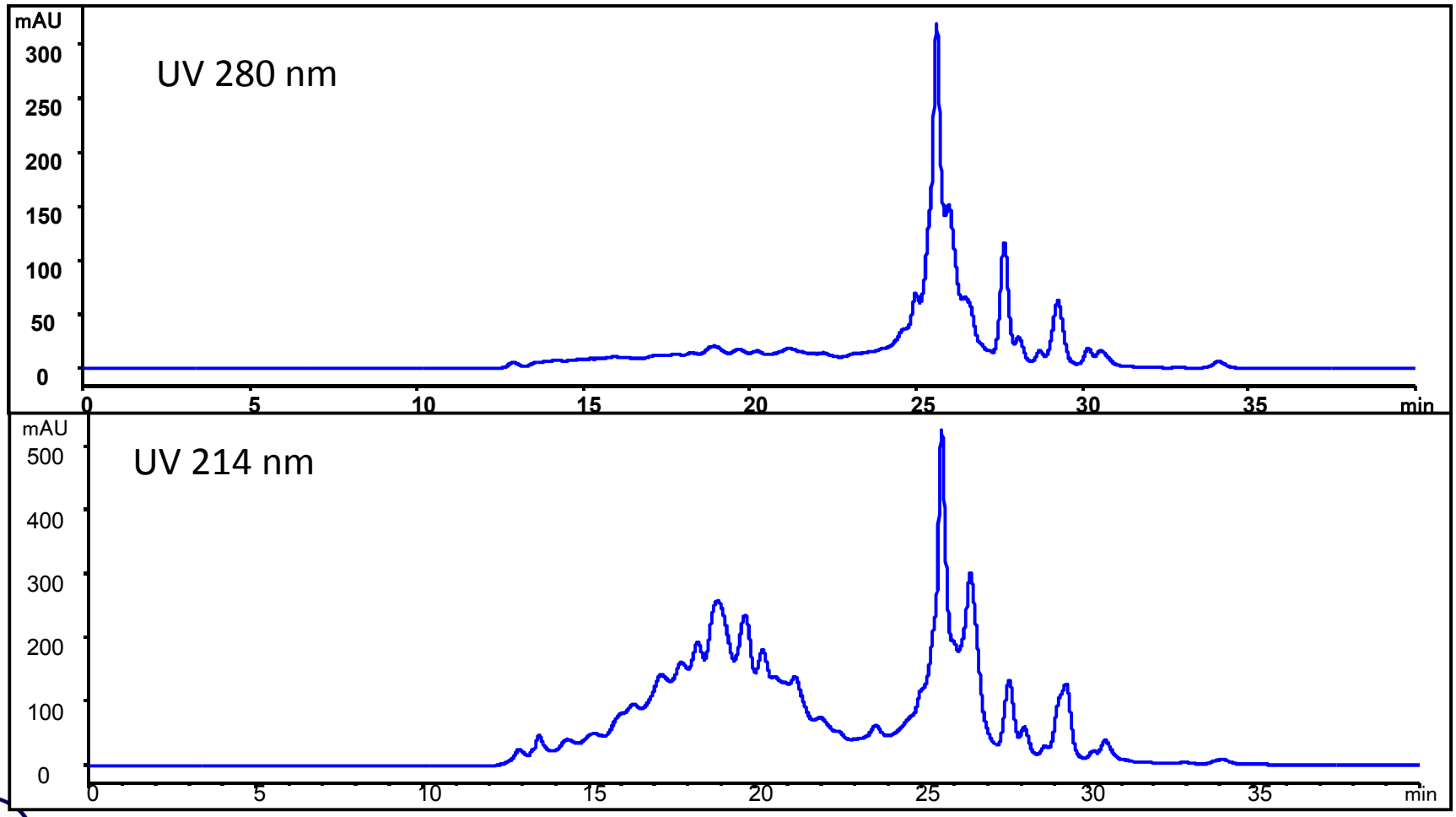
Overlay of SEC-150 and SEC-300 for E. coli lysate separation-UV214 nm

Column: Zenix® SEC-150 (3 µm, 150 Å, 7.8 x 300 mm); Zenix® SEC-300 (3 µm, 300 Å, 7.8 x 300 mm);
Mobile phase: 150 mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 1 mL/min; Detector: UV 214 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 10 µL



SEC-150 and SEC-300 in tandem for E. coli lysate separation

Column: Zenix® SEC-150 (3 µm, 150 Å, 7.8 x 300 mm) and Zenix® SEC-300 (3 µm, 300 Å, 7.8 x 300 mm);
Mobile phase: 150 mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 1 mL/min; Detector: UV 280 nm, 214 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 20 µL

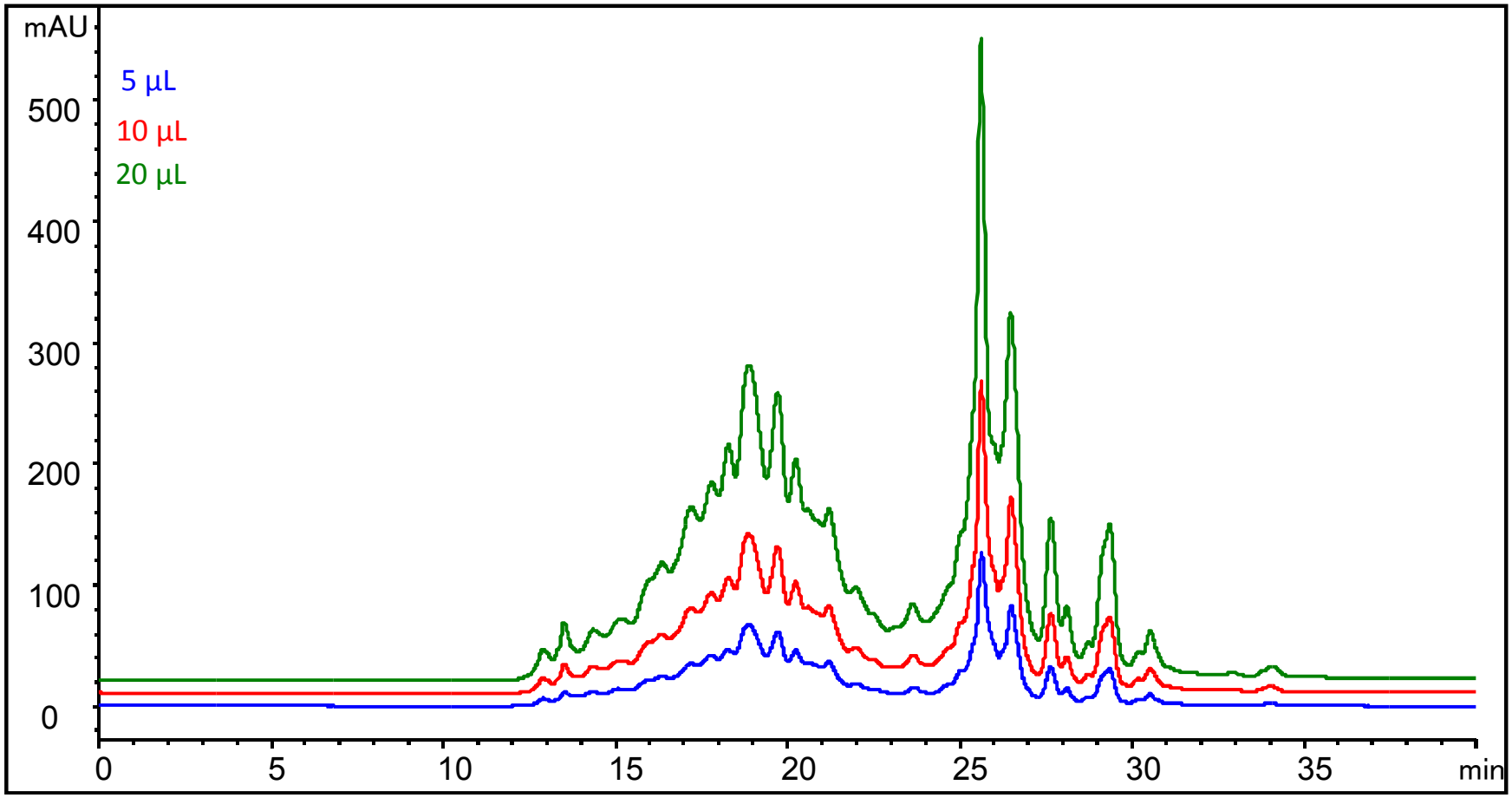


SEC-150 and SEC-300 in tandem for E. coli lysate separation-UV214 nm

ZY1002

Loading test

Column: Zenix® SEC-150 (3 µm, 150 Å, 7.8 x 300 mm) and Zenix® SEC-300 (3 µm, 300 Å, 7.8 x 300 mm);
Mobile phase: 150 mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 0.8 mL/min; Detector: UV 214 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 5, 10, 20 µL

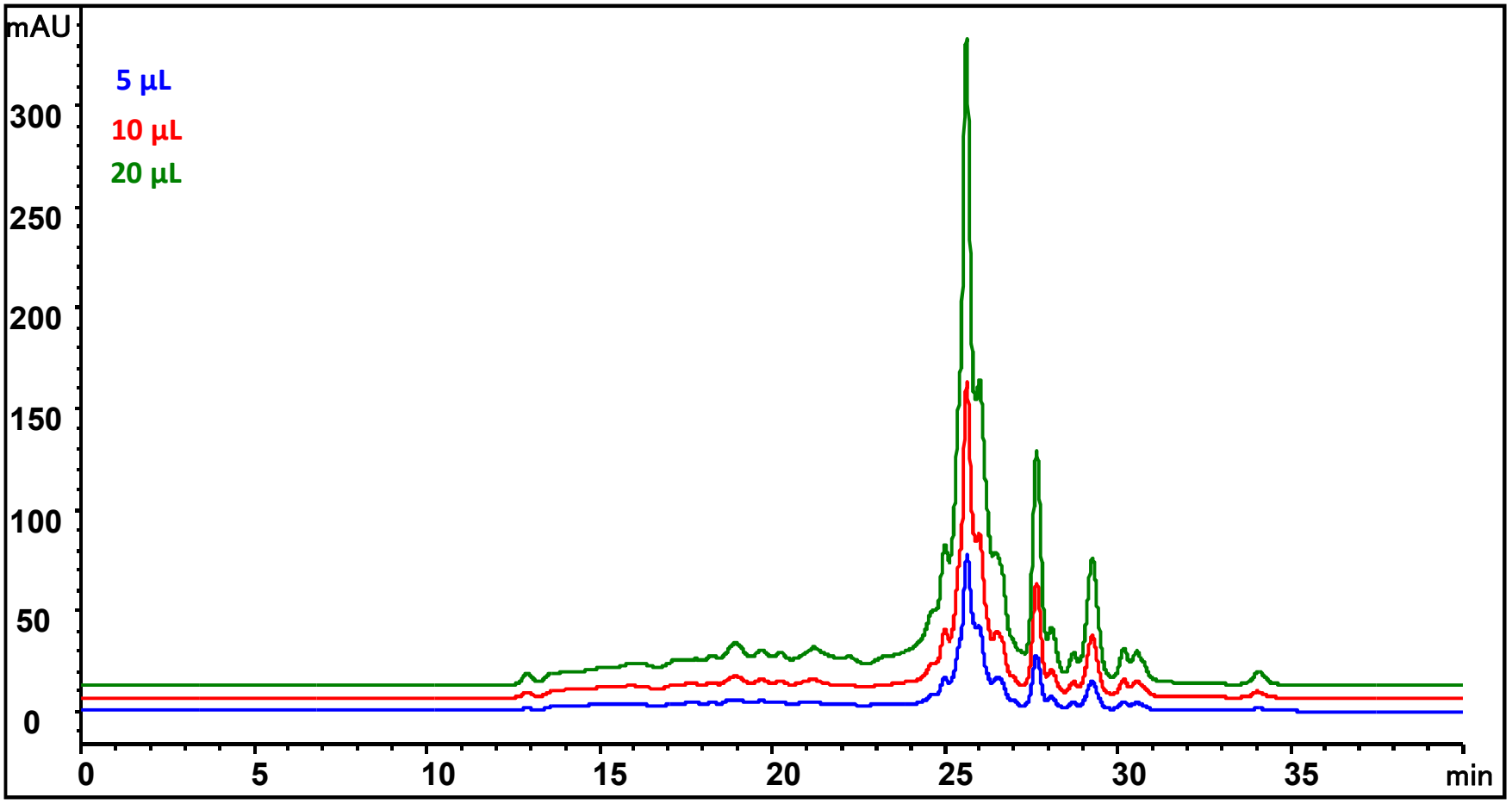


SEC-150 and SEC-300 in tandem for E. coli lysate separation-UV280 nm

ZY1002

Loading test

Column: Zenix® SEC-150 (3 µm, 150 Å, 7.8 x 300 mm) and Zenix® SEC-300 (3 µm, 300 Å, 7.8 x 300 mm);
Mobile phase: 150 mM Sodium Phosphate Buffer, pH=7.0
Flow rate: 0.8 mL/min; Detector: UV 280 nm; Column temperature: 25 ℃ ;
Sample: 2.7 mg/mL Bio-rad E. coli lysate; Injection volume: 5, 10, 20 µL



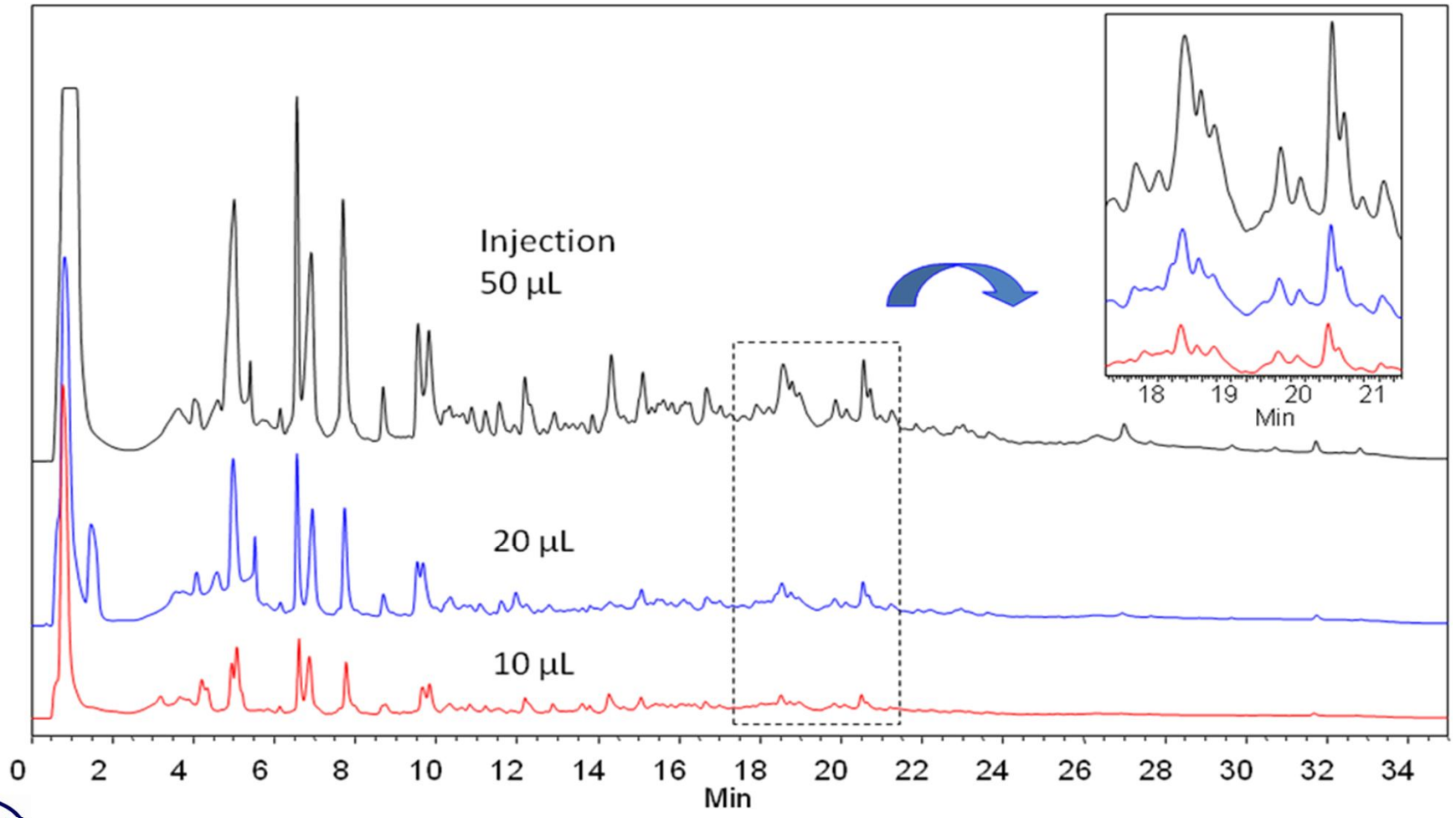
E. Coli lysate separation

Ion exchange chromatography

Proteomix® SAX-NP3 (3 µm, 4.6 x 50 mm)

Separation of *E. coli* lysate with Proteomix SAX columns

Column: Proteomix® SAX-NP3 (3 µm, 4.6 x 50 mm);
Mobile phase: A: 20 mM Tris, pH 9.0; B: A + 0.5 M NaCl; Gradient: 0-100% B (30 min)
Flow rate: 1 mL/min; Detector: UV 280 nm; Column temperature: ambient;
Sample: 2.5 mg/mL Custom source E. coli lysate; Injection volume: 10, 20, 50 µL



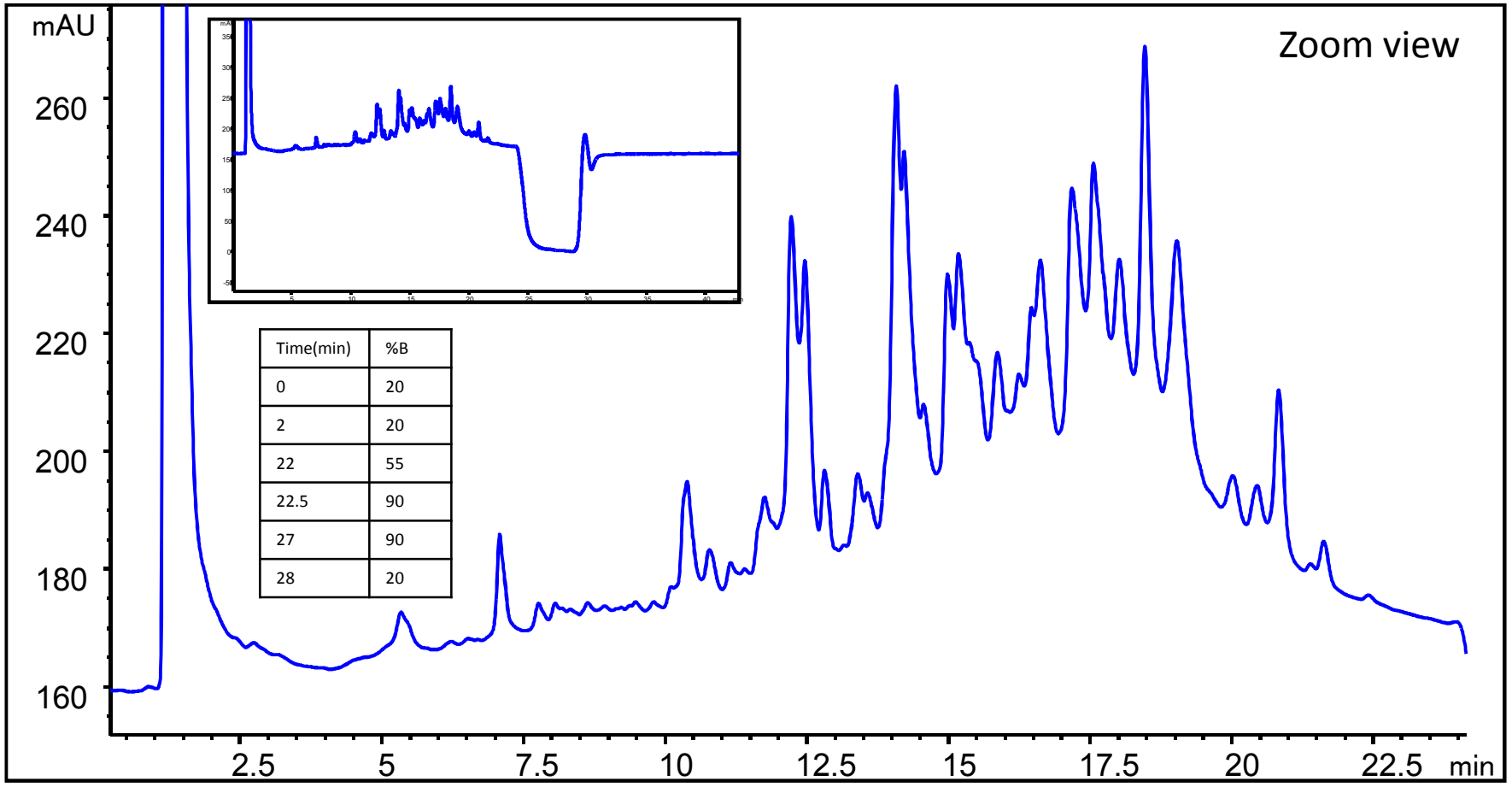
E. Coli lysate separation

Reversed phase chromatography

PolyRP-1000 (5 µm, 1000 Å, 4.6 x 100 mm)

E. Coli lysate separation on PolyRP-1000

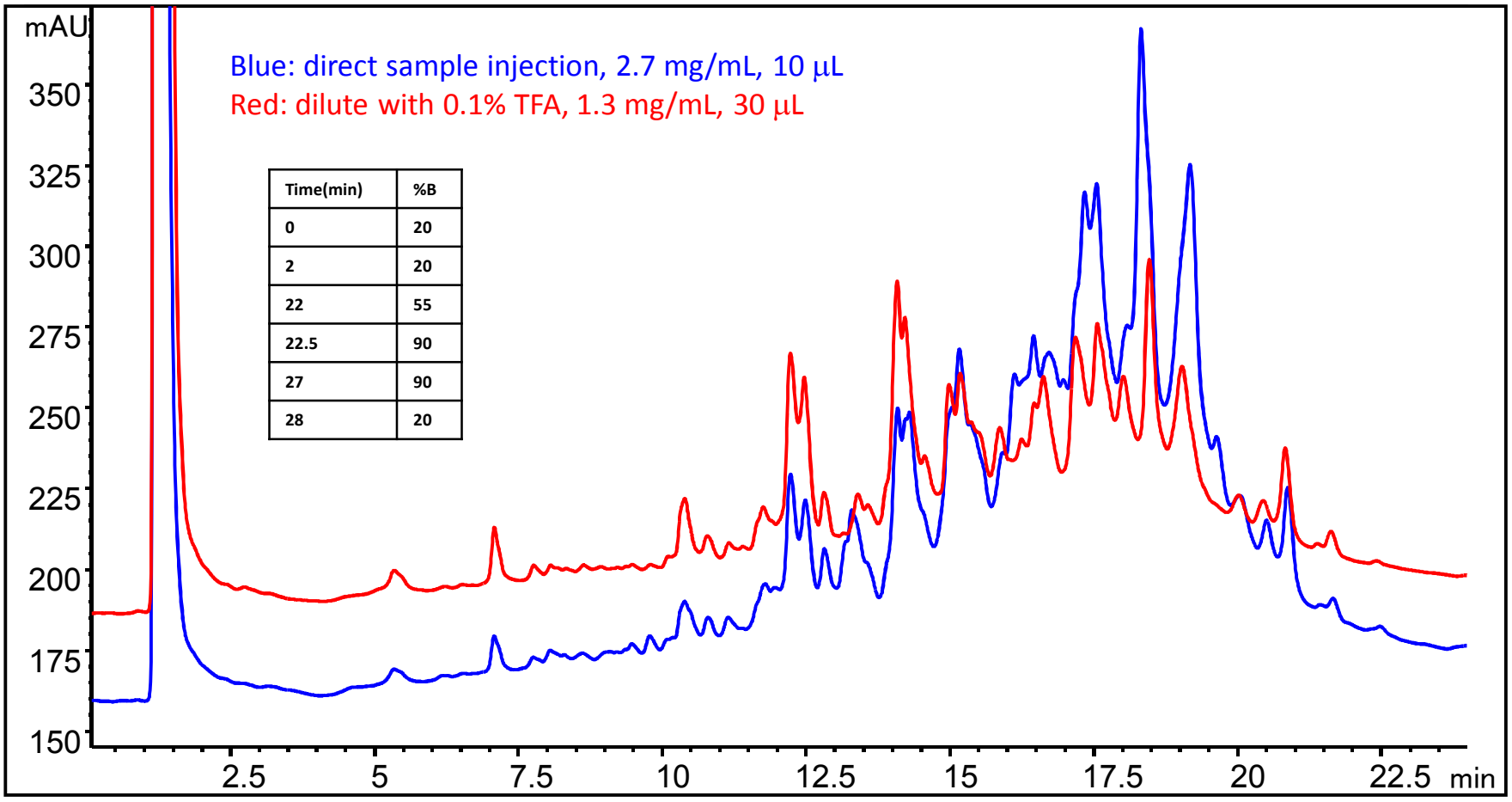
Column: PolyRP-1000 (5 µm, 1000 Å, 4.6 x 100 mm);
Mobile phase: A: 0.1% TFA in water; B: 0.1% TFA in 100% ACN;
Flow rate: 1.0 mL/min; Detector: UV 210 nm; Column temperature: 80 ˚C;
Sample: Bio-rad E. coli lysate diluted in 0.1% TFA, filter before injection (1.3 mg/mL) ; Injection volume: 30 µL



Time(min)	%B
0	20
2	20
22	55
22.5	90
27	90
28	20

Bio-rad E. Coli lysate separation on PolyRP-1000

Column: PolyRP-1000 (5 µm, 1000 Å, 4.6 x 100 mm);
Mobile phase: A: 0.1% TFA in water; B: 0.1% TFA in 100% ACN;
Flow rate: 1.0 mL/min; Detector: UV 210 nm; Column temperature: 80 ˚C;
Sample: See chromatogram



Time(min)	%B
0	20
2	20
22	55
22.5	90
27	90
28	20