



Tween 80 & Tween 20

Analysis of MAb 221 with Tween 80 and Tween 20 by Sepax SEC Column

THE CHALLENGE:

Tween 80 gives disturbing peak just where your protein elutes?

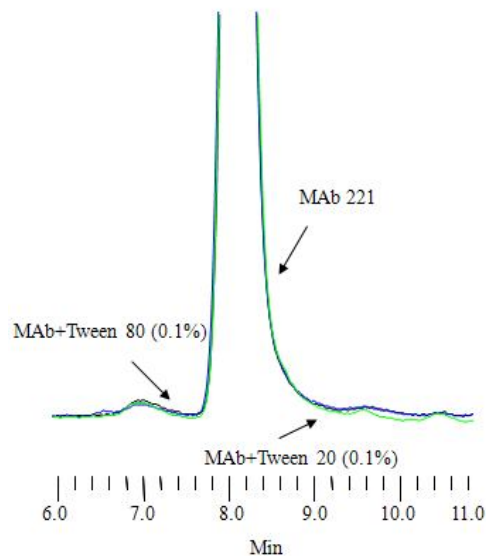
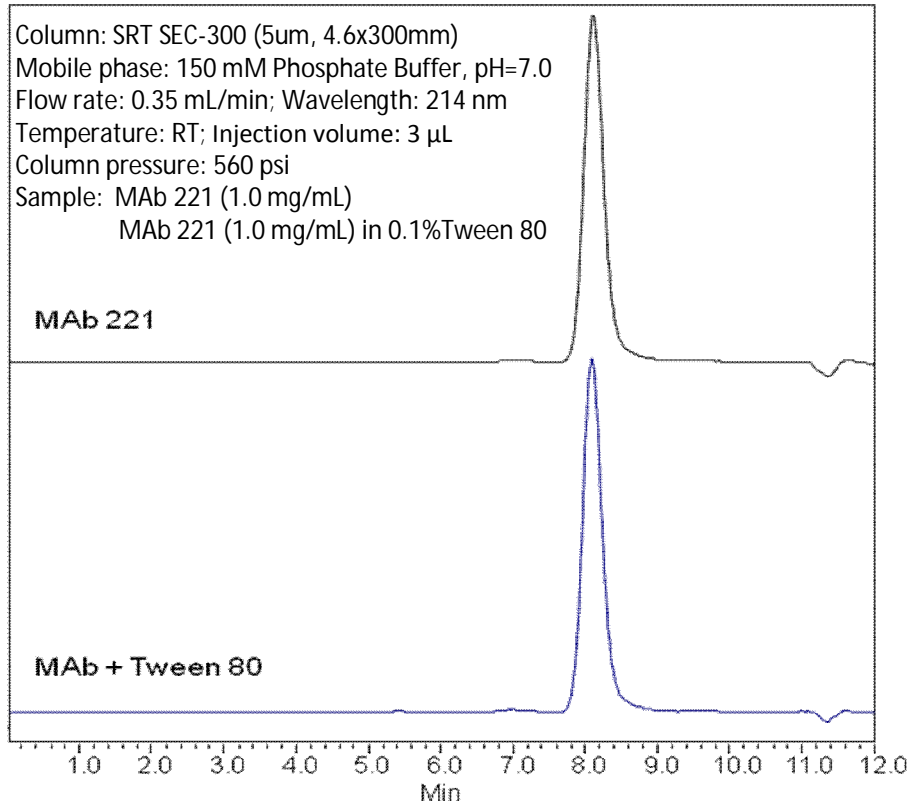
Commonly used surfactant, such as Tween 80 (Polysorbate 80) or Tween 20 (Polysorbate 20) in drug formulation buffer, coeluting with main protein peak.

THE SOLUTION:

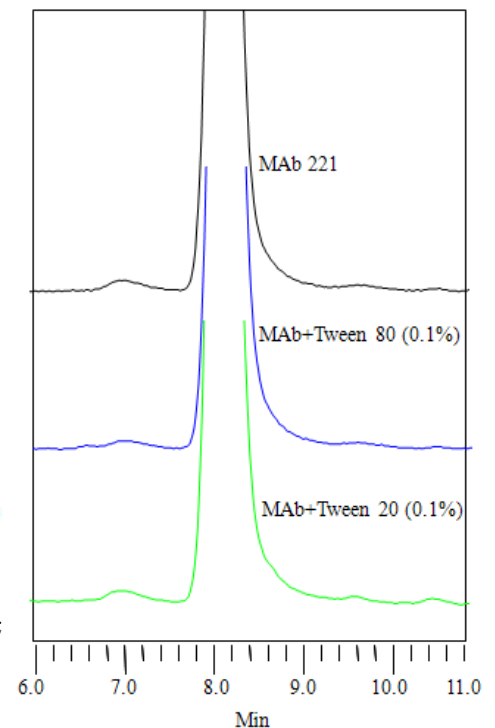
Sepax SEC
(SRT 5um or Zenix 3um)

Delivers unrivaled high resolution separation with virtually no Tween 80 or Tween 20 interference due to unique proprietary surface coating technology. Sepax SEC allows you to focus on peaks of interest.

SRT SEC-300, 5um silica based SEC offers high resolution and non-interfering separation of MAb 221 with and without the presence of 0.1% Tween 80 and Tween 20.



Column: SRT SEC-300 (5um, 300A, 4.6x300mm)
 Mobile phase: 150 mM Phosphate Buffer, pH=7.0;
 Flow rate: 0.35 mL/min; Detector: Refractive Index;
 Temperature: RT; Sample: MAb 221 (1.4 mg/mL);
 Injection Volume: 3 µL



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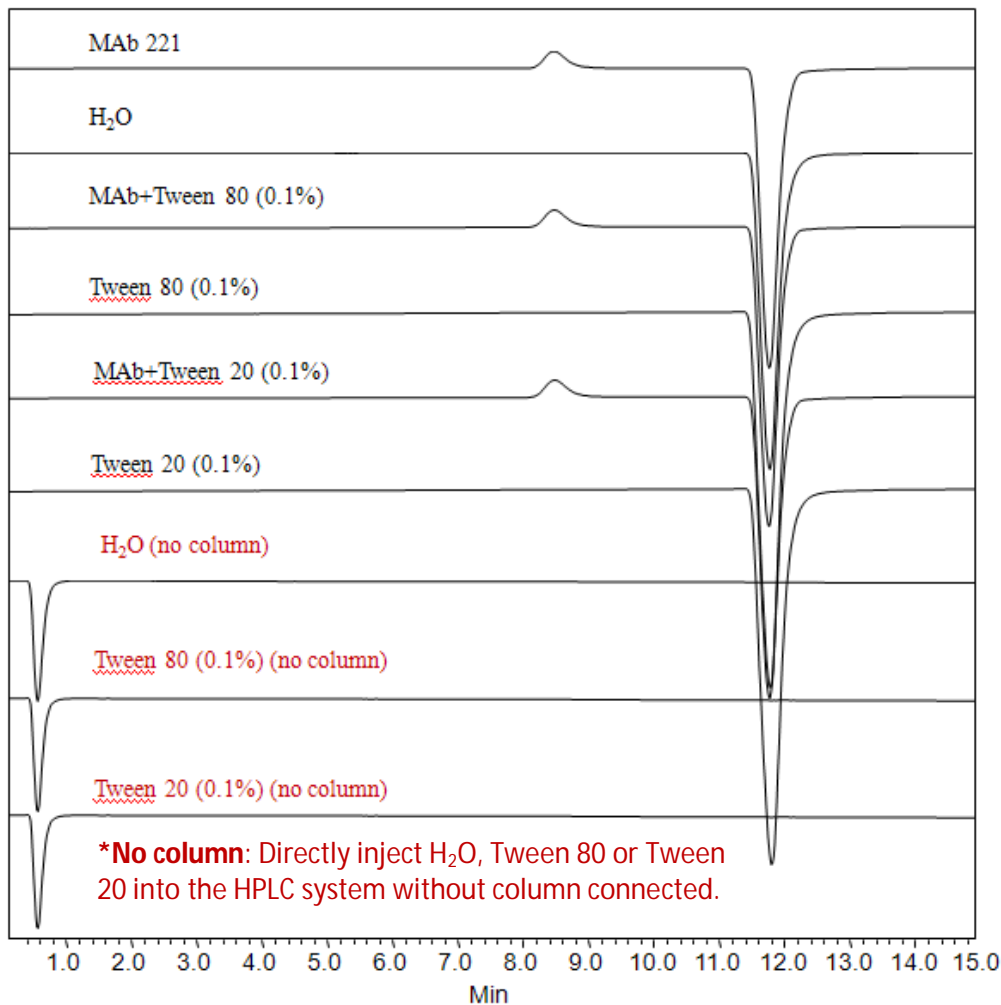
Tween 80 and Tween 20 have no impacts on the MAb separation

Data Supported Facts:

As shown in right figure, mixtures of MAb with Tween 80 (0.1%) and MAb with Tween 20 (0.1%) were subject to size-exclusion chromatography on SRT SEC-300 (5 μ m, 300A, 4.6x30mm) and detected using Refractive Index.

Further, water, Tween 80 and Tween 20 samples were individually injected to HPLC system without the use of SEC column.

The consistency in the three separation profiles suggests Tween 80 and Tween 20 samples pass through the column together with water which explains why when using Sepax SEC and in presence of Tween, the separation exhibits no MAb and Tween coelution interference.



Column Condition:

Column: SRT SEC-300 (5 μ m, 300A, 4.6x300mm); Mobile phase: 150 mM Phosphate Buffer, pH=7.0; Flow rate: 0.35 mL/min; Detector: Refractive Index; Temperature: RT; Sample: MAb 221 (1.4 mg/mL); Injection Volume: 3 μ L

Order Information

215300-7830	SRT SEC-300, 5 μ m, 300A, 7.8x300mm
215300-4630	SRT SEC-300, 5 μ m, 300A, 4.6x300mm
213300-7830	Zenix SEC-300, 3 μ m, 300A, 7.8x300mm

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