



Tween[®] 80 & Tween 20

Analysis of MAb 221 in Tween 80 or Tween 20 with Sepax SEC Columns

THE CHALLENGE:

To prevent a Tween 80 detergent peak just where one's protein elutes.

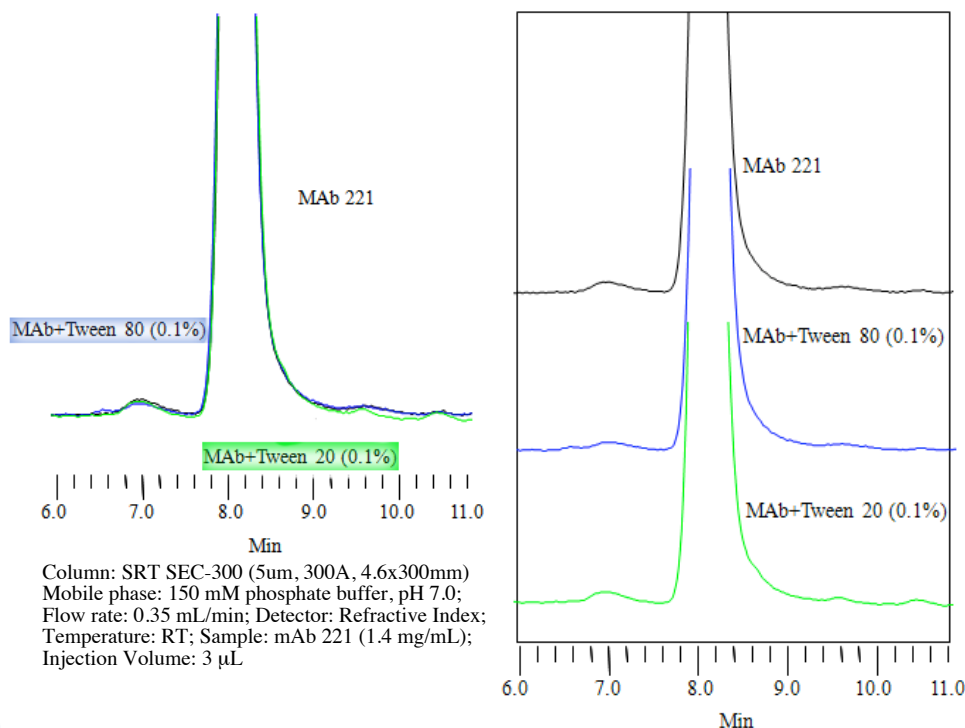
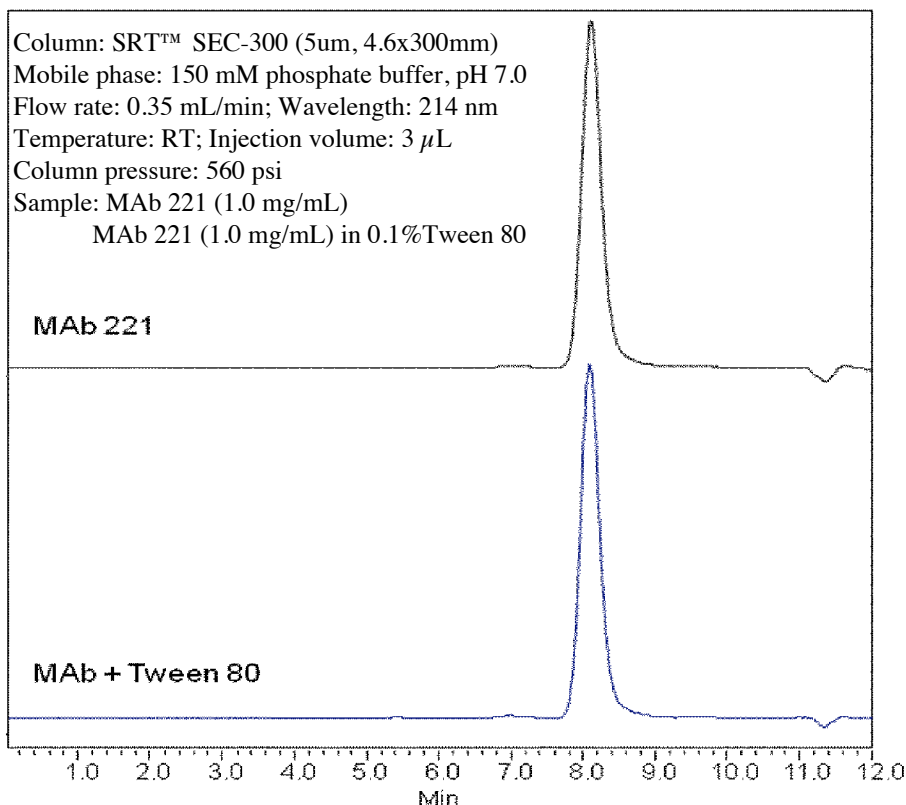
Commonly used surfactants, such as Tween 80 (Polysorbate 80) or Tween 20 (Polysorbate 20) in drug formulation buffers, can co-elute with the main protein peak on SEC columns.

THE SOLUTION:

Sepax SEC: (SRT 5um or Zenix 3um)

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

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



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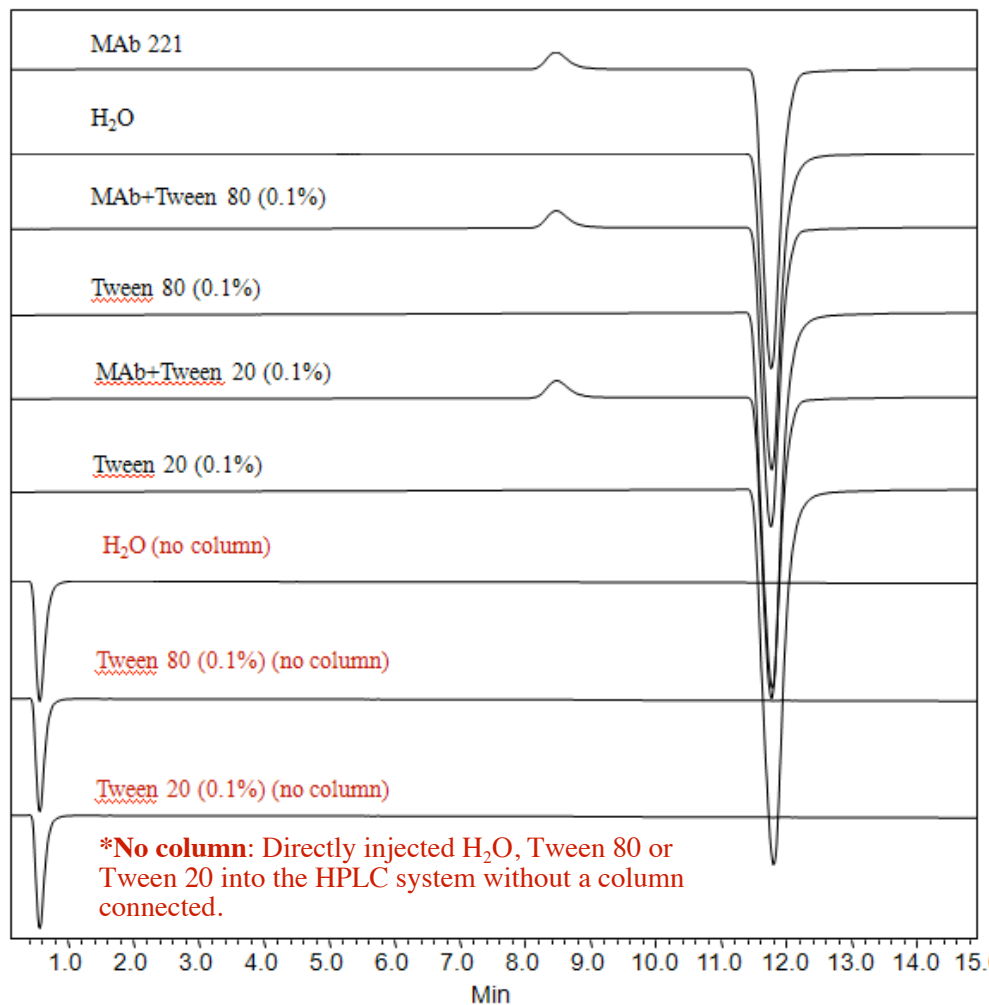
Tween 80 & Tween 20

Tween 80 and Tween 20 have no impact on SRT SEC mAb separations

Data Supported Facts:

As shown at right, 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, 4.6x300mm) and detected using Refractive Index.

Furthermore, water, Tween 80 and Tween 20 samples were separately injected without the use of the SRT™ SEC column. The consistency of these three separation profiles suggests Tween 80 or Tween 20 samples pass through the column with no impact on the separation of a mAb.



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

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Ordering Information:

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