



Tween 80 & Tween 20

THE CHALLENGE:

Tween 80 gives disturbing peak just where your protein elutes?

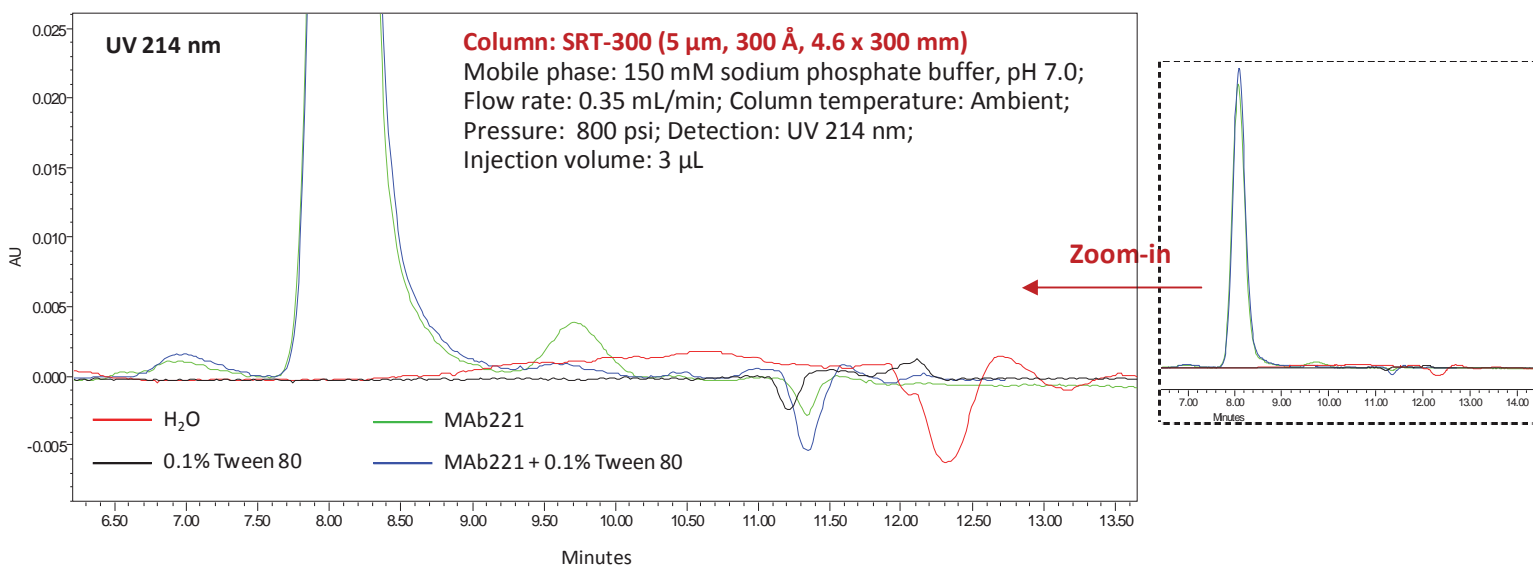
Commonly used surfactant, such as Tween 80 (Polysorbate 80) or Tween 20 (Polysorbate 20) in drug formulation buffer, coeluting with main protein peak.

THE SOLUTION:

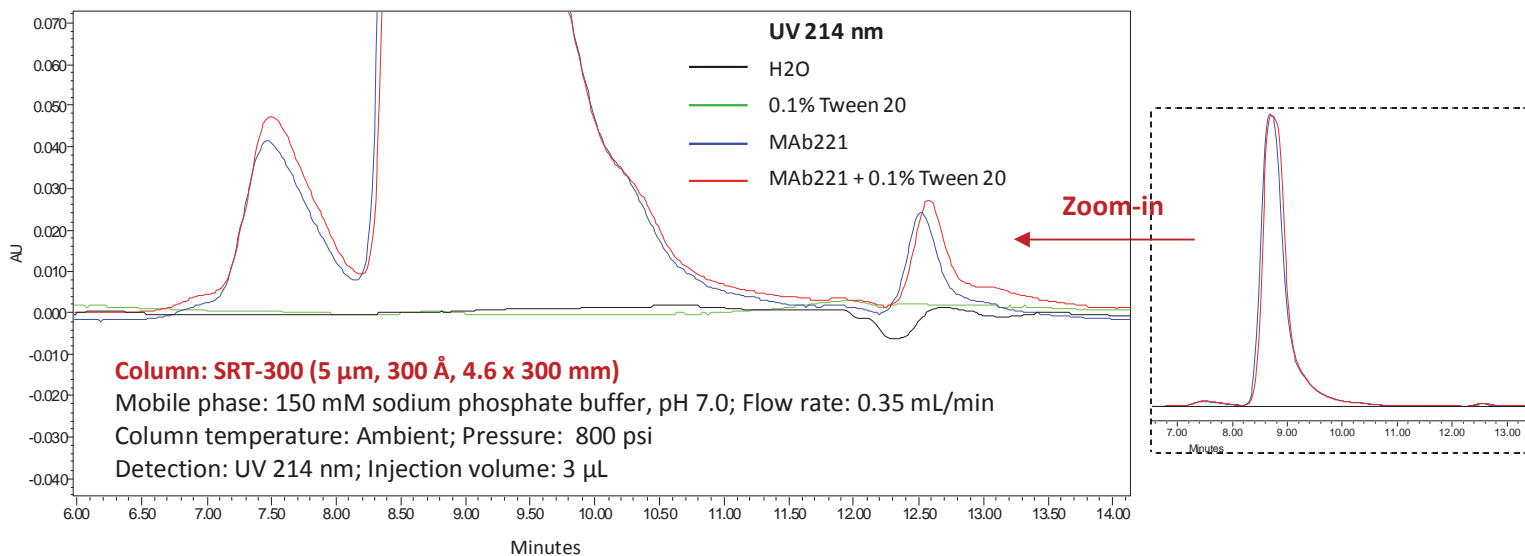
Sepax SEC (SRT 5 μm or Zenix 3 μm)

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. Both SRT 5 μm and Zenix 3 μm silica based SEC columns offer high resolution and non-interfering separation of MAb 221 with and without the presence of 0.1% Tween 80 and/or Tween 20.

Analysis of MAb 221 with Tween 80 by Sepax SEC Column (UV Detector)



Analysis of MAb 221 with Tween 20 by Sepax SEC Column (UV Detector)

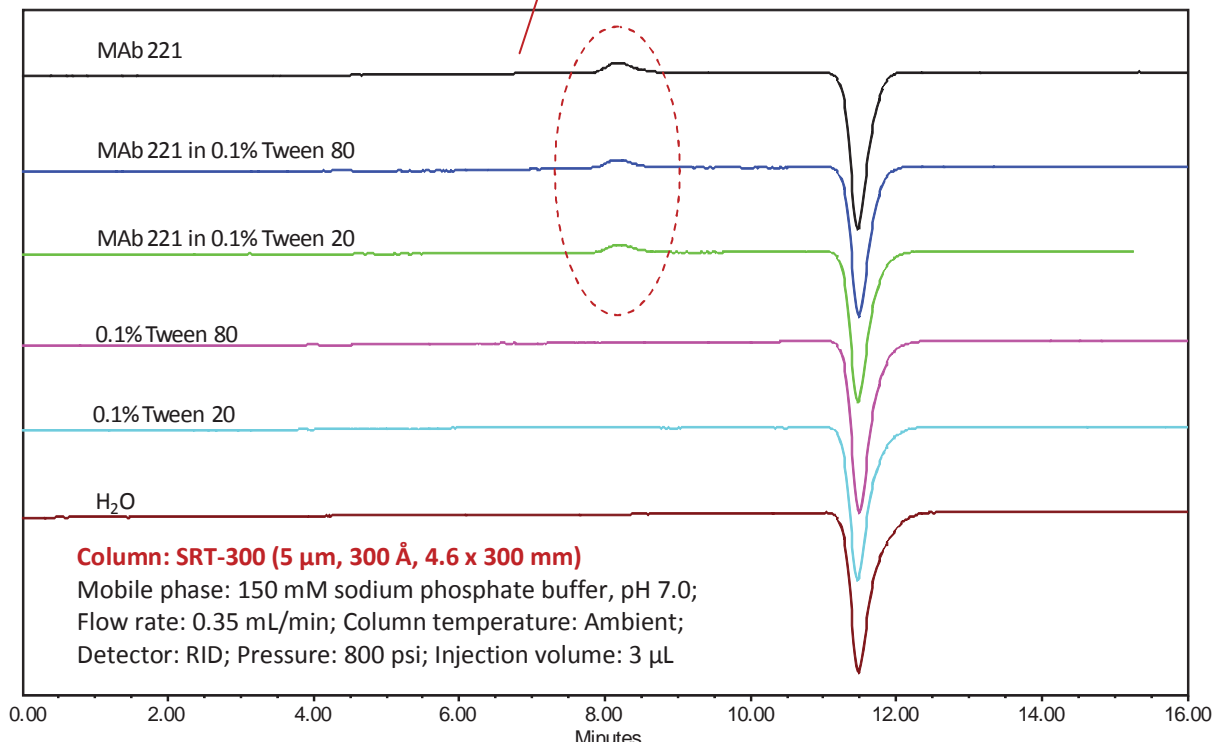
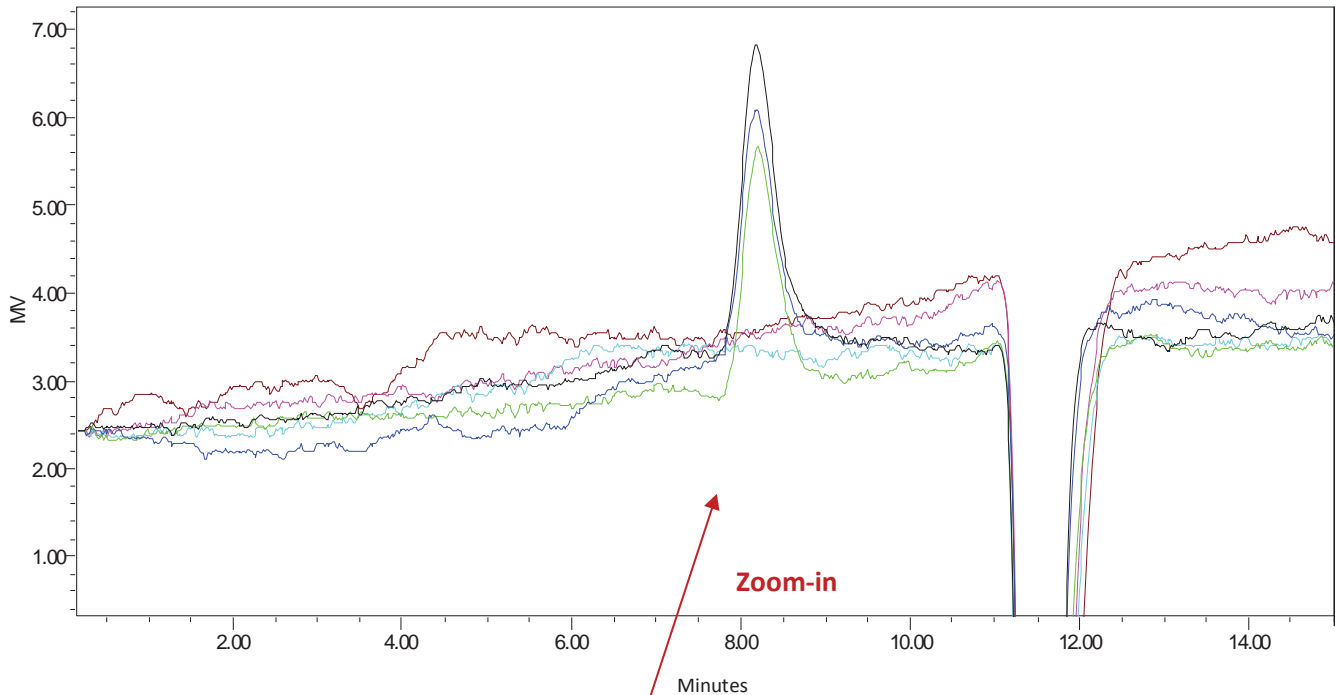




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Tween 80 and Tween 20 have no impacts on the MAb separation (RI Detector)

As shown in below 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, 4.6x300mm) and detected using refractive index.

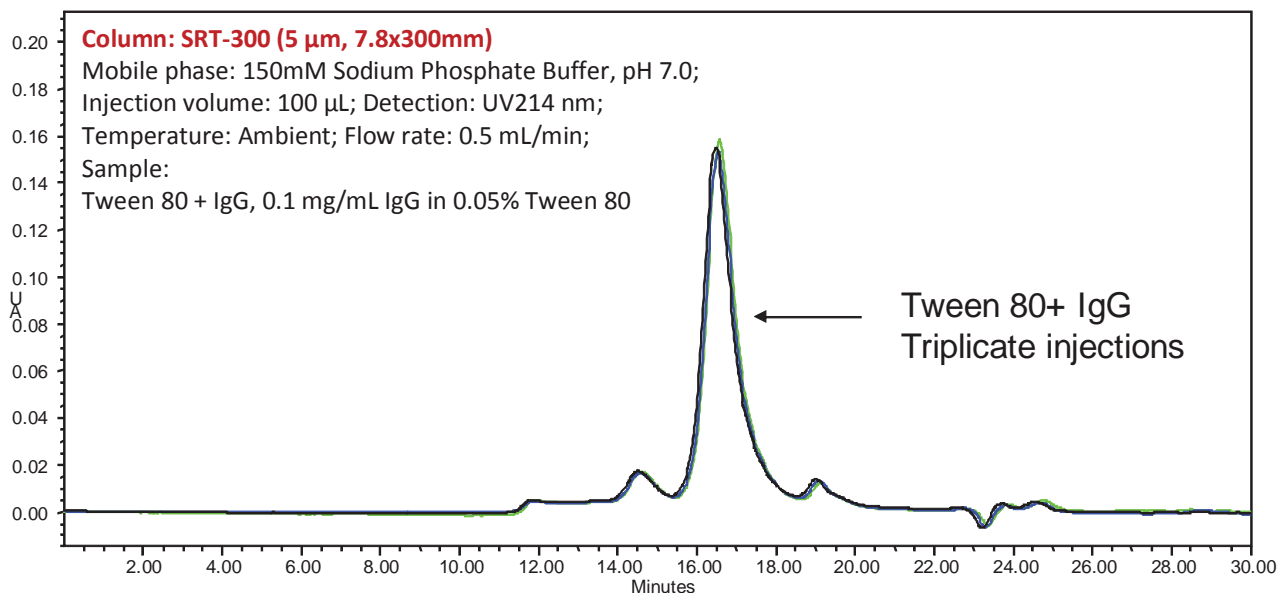
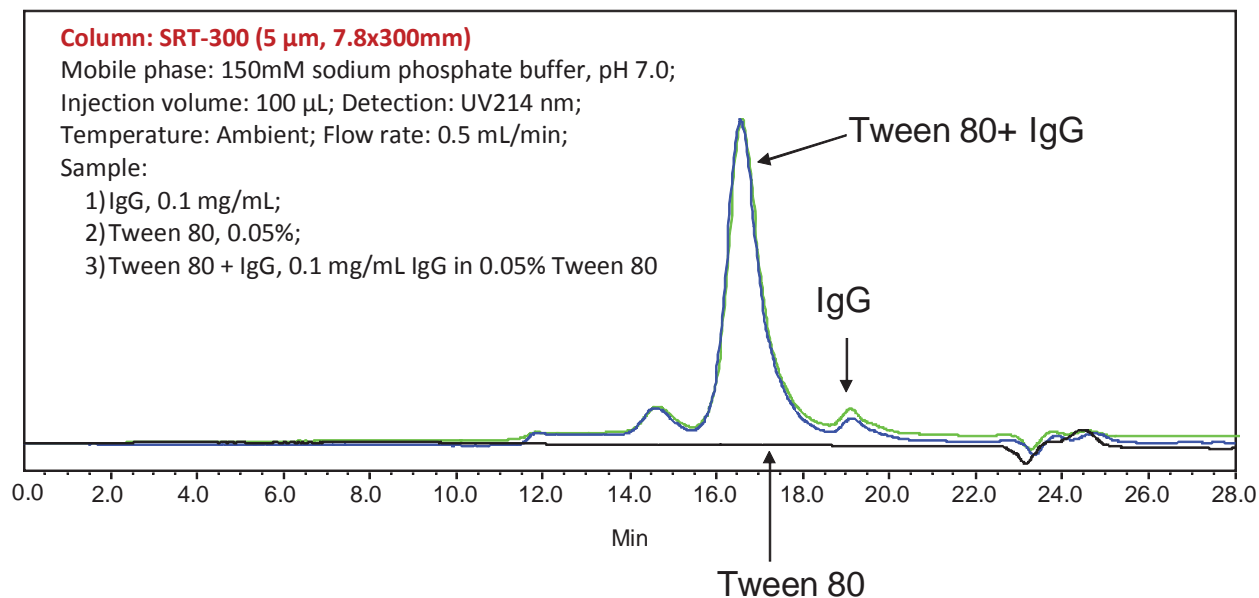




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Analysis of Tween 80 and IgG by Sepax SEC Column (UV Detector)

Further, below chromatograms confirm the absence of Tween interference at higher loading (injection volume up to 100 μ L) and high reproducibility with triplicate injection data.



Sigma-Aldrich/Supelco Ordering Information

Z777051	SRT SEC-300, 5 μ m, 30 cm x 7.8 mm
Z777049	SRT SEC-300, 5 μ m, 30 cm x 4.6 mm
Z777033	Zenix SEC-300, 3 μ m, 30 cm x 7.8 mm

See www.sigmaaldrich.com/sepax for more information about these and other products from Sepax Technologies