

**Sepax Technologies, Inc.**

**Quantitative Analysis of Tween 20 in Formulated MAb Samples Using Sepax Mixed-Mode SAX Column Chromatography**

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**APPLICATION NOTE**

## New Application Data

# Quantitative Analysis of Tween 20 in Formulated MAb Samples Using Sepax Mixed-Mode SAX Column Chromatography

This month's newsletter features a study of surfactant quantitation in formulated biological samples by using mixed-mode columns. Sepax Monomix H2P SAX columns were being used to analyze *Tween 20* in NIST mAb in this application and is demonstrated to provide:

- Reliable and Faster Surfactant Quantitation
- Excellent Lot-to-lot Consistency
- Superb Linearity with  $R_2 > 99\%$
- Applicable for HTS Method
- Proteins Well Separated in Native Form from Surfactants

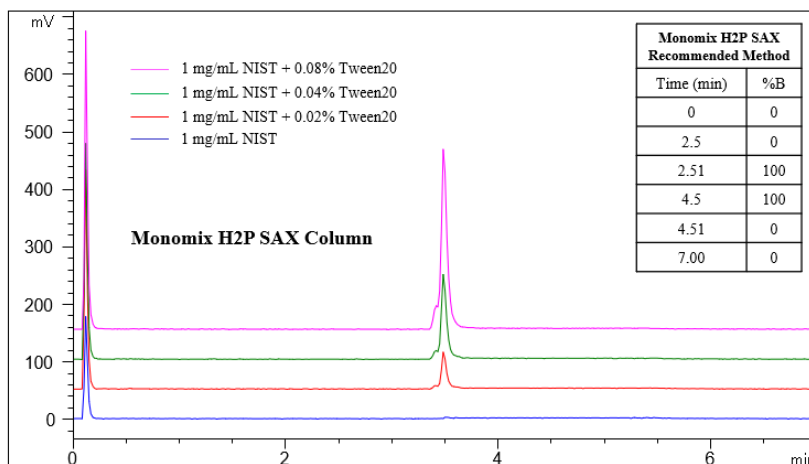
Read the full Application Note below for more details.



## NIST mAb and Tween20 Analysis

### on Sepax Monomix H2P SAX

**Column:** Monomix H2P SAX Column (2.1 x 20 mm, PN: 282640990-2102)  
**Mobile Phase A:** 2% formic acid in water; **Mobile Phase B:** 2% formic acid in IPA; **Flow rate:** 1 mL/min;  
**Column Temperature:** 25 °C; **Sample:** 1 mg/mL NIST, Tween20 (5  $\mu$ L); **Detector:** ELSD (Temperature: 80 °C)



[Click here](#)

## Column: Monomix H2P-SAX, 40 µm, 2.1 x 20 mm

Part Number: 282640990-2102

Monomix H2P-SAX columns are designed to effectively quantify neutral amphiphilic surfactants, such as Tween 80, Tween 20, and Poloxamers, which are commonly present in formulated biological samples, such as Monoclonal Antibodies.

The rigid and spherical solid support of the resin is composed of highly cross-linked poly(styrene/divinylbenzene/modifier) (PS/DVB/M). The average particle size is 40 µm, with a narrow size distribution ( $D_{90}/D_{10} < 1.3$ ), and ideal porous structure and robust chemical/physical stability. The polymeric porous beads are further covalently modified with mixed-mode ligands so that the beads are water wettable, and at the same time can absorb amphiphilic surfactants.

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Interested in learning more about Tween Removal and Analysis?  
Read more Sepax Application Notes here:

***Quantification Analysis Show Case - Tween 20 in Erbitux***

***TweenTrap in Tandem with SEC Column Run to Remove Surfactant  
Coelution and Interference***

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