# Rapid and Comprehensive Surfactant Characterization for Biotherapeutics

Agilent AdvanceBio Surfactant Profiling HPLC columns



## Managing surfactant degradation in biotherapeutics

Surfactants are critical in biotherapeutic formulation buffers, as they prevent biologic aggregation and adsorption. Polysorbates, in particular, play a vital role in stabilizing biotherapeutic proteins, ensuring drug safety and efficacy. However, polysorbate degradation through hydrolysis or oxidation can lead to lower-than-expected levels in formulations and other adverse effects. With increasing regulatory awareness and scrutiny, thorough surfactant characterization during early development stages is crucial.

The AdvanceBio Surfactant Profiling column supports your lab's surfactant profiling needs, helping to ensure biotherapeutic quality rapidly and effectively.

#### Surfactant profiling built for your future

Current approaches, such as those using reversed-phase columns, require extended methods and longer columns. The AdvanceBio Surfactant Profiling HPLC column was designed to be shorter, offering improved separations in less time and at a lower cost.

Save time and money by switching from a traditional reversed-phase column to the AdvanceBio Surfactant Profiling column.



# \* Relative to existing methods, these values are based on ten representative LC gradients, 950 injections, 100 samples/week, and a \$1,040 column cost

### **Experience the benefits**

- High-resolution separations for enhanced surfactant characterization
- Valuable time and cost savings
- Considerable solvent savings for improved sustainability
- Proactive management of regulatory requirements and quality standards



## Uncommon chemistry, unparalleled results

The AdvanceBio Surfactant Profiling column easily resolves free fatty acids from the polysorbate monoester peak in less than 10 minutes. In contrast, competitive columns typically used for this analysis exhibit lower resolution with up to 60-minute run times.

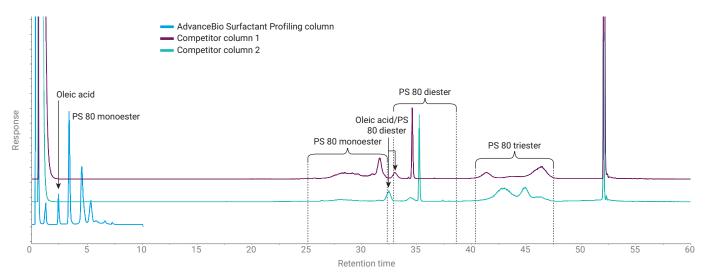


Figure 1. The Agilent AdvanceBio Surfactant Profiling column easily resolves the free fatty acids from the polysorbate monoester peak in under 10 minutes. The competitive columns typically used for this analysis have lower resolution in 60-minute run times.

By implementing this robust analytical method, you can be prepared for future regulatory requirements and allow quality issues to be addressed early in the development process. Rapidly obtain the in-depth information you need while saving time and money.

### **Ordering information**

Description	Part Number
AdvanceBio Surfactant Profiling, 2.1 x 50 mm	865750-907
AdvanceBio Surfactant Profiling, 2.1 x 100 mm	861775-907
AdvanceBio Surfactant Profiling, 2.1 x 150 mm	863750-907
AdvanceBio Surfactant Profiling, 2.1 mm, fast guard	821126-927
AdvanceBio Surfactant Profiling, 4.6 x 50 mm	865973-907
AdvanceBio Surfactant Profiling, 4.6 mm, fast guard	820951-927



To learn more visit:

www.agilent.com/chem/advancebio-surfactant-profiling

DE-006398

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