

## Lot to lot variations on BioSep4000 (2)

**Column:** BioSep™ 5 µm SEC-s4000 500 Å, LC Column 300 x 7.8 mm, Ea

**Dimensions:** 300 x 7.8 mm ID

**Order No:** 00H-2147-K0

**Elution Type:** Isocratic

**Eluent A:** 100mM Phosphate buffer pH 6.8

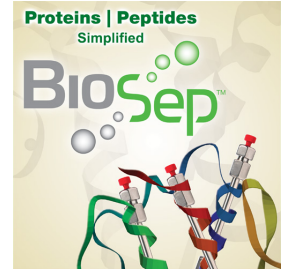
Gradient	Step No.	Time (min)	Pct A
<b>Profile:</b>	<b>1</b>	0	100

**Flow Rate:** 1 mL/min

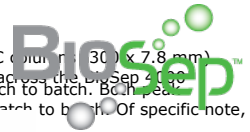
**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 220 nm (ambient)

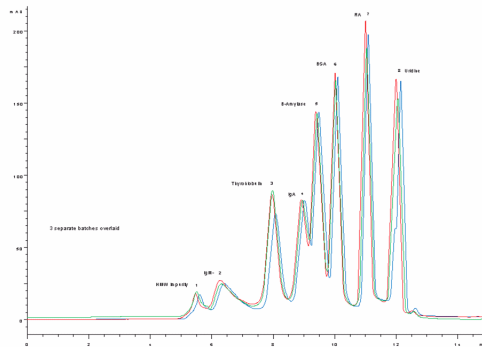
**Analyst Note:** Application Focus: Investigations on lot to lot variations for BioSep 4000



Products used in this application:



The purpose of this application is to show lot to lot reproducibility (or variation) between BioSep 4000 media lots. GFC columns (300 x 7.8 mm) from three different silica batches were overlaid to show retention and recovery differences. A GFC standard focused across the BioSep 4000. When batch specific chromatograms are overlaid, one can see that the standard chromatograms look very similar batch to batch. Both peak retention times and protein recoveries are very similar indicating that the BioSep 4000 is a very reproducible media batch to batch. Of specific note,



### ANALYTES:

- 1** High MW impurity  
Retention Time: 5.5 min
- 2** IgM (900kDa)  
Retention Time: 6.25 min
- 3** Thyroglobulin (669kDa)  
Retention Time: 7.9 min
- 4** IgA (320kDa)  
Retention Time: 8.9 min
- 5** beta-Amylase (200kDa)  
Retention Time: 9.4 min
- 6** BSA (66kDa)  
Retention Time: 9.9 min
- 7** Ribonuclease A (13.7kDa)  
Retention Time: 11 min
- 8** Uridine  
Retention Time: 11.9 min

