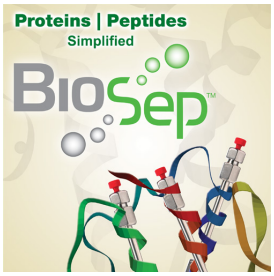
HPLC Application

ID No.: **18897**

Lot to lot variations on BioSep4000 (2)



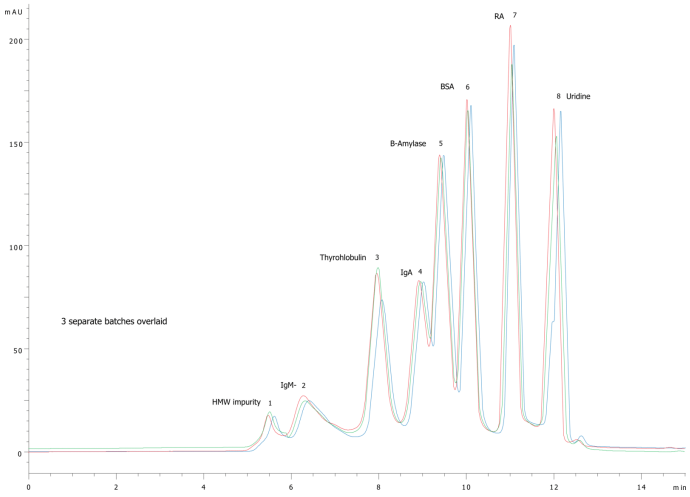
Products used in this application:

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 Profile:	**Step No.**	**Time (min)**	**Pct A**
	1	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

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
Retention Time: 6.25 min

3 Thyroglobulin
Retention Time: 7.9 min

4 IgA
Retention Time: 8.9 min

5 beta-Amylase
Retention Time: 9.4 min

6 BSA
Retention Time: 9.9 min

7 Ribonuclease A
Retention Time: 11 min

8 Uridine
Retention Time: 11.9 min