HPLC Application

ID No.: **18892**

Medium range MW Separation, 50-500 KDa on BioSep2000 (2) and TSK

Column: BioSep™ 5 µm SEC-s2000 145 Å, LC Column 300 x 7.8 mm, Ea

Dimensions: 300 x 7.8 mm ID

Order No: 00H-2145-K0

Elution Type: Isocratic

Eluent A: 10mM Tris 150mM NaCl, pH 7.4 □□10mM Tris 150mM NaCl, pH 7.4 □□10mM Tris 150m M Tris,

Gradient Profile:	**Step No.**	**Time (min)**	**Pct A**
	1	0	100

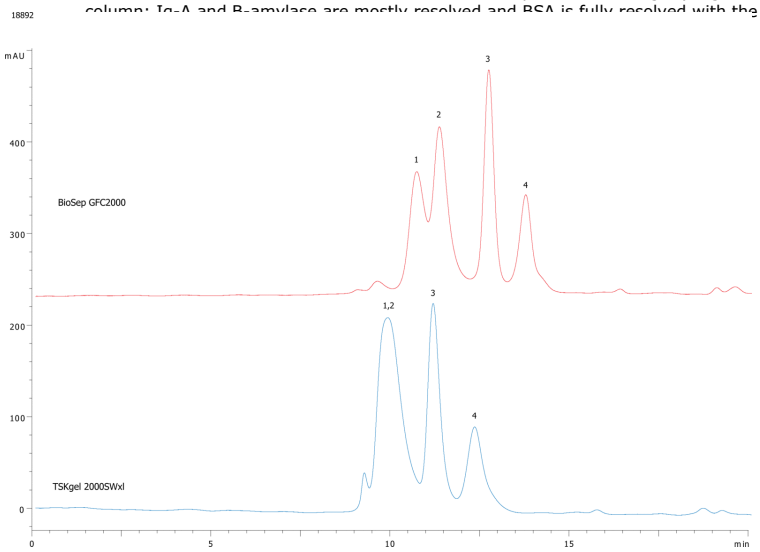
Flow Rate: 0.6 mL/min

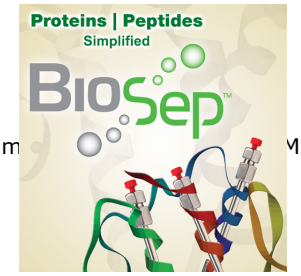
Col. Temp.: ambient

Detection: UV-Vis Abs.-Variable Wave.(UV) @ 214 nm (ambient)

Analyst Note: Application focus: Comparing and contrasting standard protein separations on BioSep 2000 versus competitor columns.

To better understand the performance characteristics of the BioSep 2000 GFC media, comparisons were performed usin a standard protein mixture that evaluated resolution between 50 to 500 KDa molecular weight. Columns for BioSep 2000 and TSKgel SWxl 2000 (300 x 7.8 mm) were When results are reviewed one can see that the BioSep 2000 has a slightly higher optimal molecular weight selectivity window than the competitor column; Ig-A and B-amylase are mostly resolved and BSA is fully resolved with the BioSep 2000 versus the competitor column where the first two





Products used in this application:

ANALYTES:

1. Human IgA
2. beta-Amylase
3. BSA
4. Ovalbumin