

Hu IgG2k aggregates on BioSep3000

Column: BioSep™ 5 µm SEC-s3000 290 Å, LC Column 300 x 7.8 mm, Ea

Dimensions: 300 x 7.8 mm ID

Order No: 00H-2146-K0

Elution Type: Isocratic

Eluent A: 100mM Sodium Phosphate pH 6.8

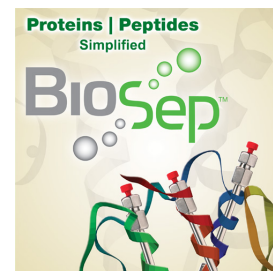
| Gradient | Step No. | Time (min) | Pct A |
|-----------------|----------|------------|-------|
| Profile: | 1 | 0 | 100 |

Flow Rate: 1 mL/min

Col. Temp.: ambient

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

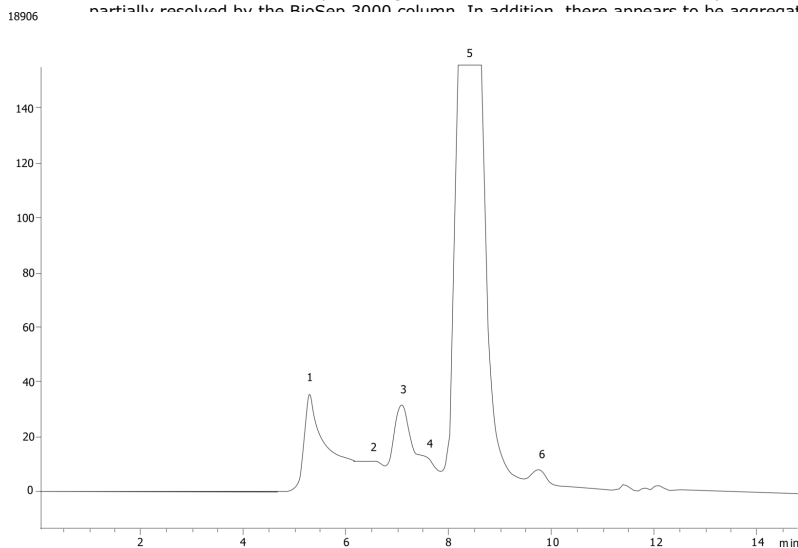
Analyst Note: Application Focus: An example of Ig-G aggregate testing on BioSep 3000



Products used in this application:



Analyzing Ig-G based therapeutics for aggregates is probably the most common application that is performed on a GFC column. Most users are attempting to get best resolution possible between the Ig-G monomer peak and any associated dimers in the sample. In this example human Ig-G2 results show that the dimer peak of Ig-G is well resolved from the monomer peak, and that there appears to be two different dimer forms that are partially resolved by the BioSep 3000 column. In addition, there appears to be aggregate at the total excluded void of the column and the



ANALYTES:

- 1** IgG
Retention Time: 5.2 min
- 2** IgG2 trimer
Retention Time: 6.5 min
- 3** IgG dimer
Retention Time: 7 min
- 4** IgG dimer
Retention Time: 7.5 min
- 5** IgG monomer
Retention Time: 8.3 min
- 6** IgG
Retention Time: 9.5 min

