

TSKgel® BioAssist Ion Exchange Columns

Large Pore Ion Exchangers for High Capacity & High Resolution Separations

TSKgel
PRODUCT OVERVIEW

Introduction

Especially designed for the separation of large biomolecules such as antibodies, the large pores of the TSKgel BioAssist columns offer superior capacity and resolution at a low column pressure drop. Constructed via a polymerization technique that allows an equivalent density of ionic exchangers to be incorporated into the particle without reducing pore size, the TSKgel BioAssist columns are unlike other ion exchange columns that use graft polymerization for polymer chain introduction. Introducing ionic polymers loosely cross-linked to the porous material results in lower operational backpressures, allowing for the reduced particle size of the TSKgel BioAssist S and BioAssist Q ion exchange columns. Packed in PEEK hardware in a 4.6mm ID x 5cm and a 10mm ID x 10cm semi-preparative column for scale-up, these columns are an excellent choice for your high throughput applications.

Product Highlights

- 4000Å and 1300Å pore sizes for the TSKgel BioAssist Q and BioAssist S respectively
- Low backpressure via a porous network of cross-linked ionic polymers
- Superior capacity and resolution versus conventional graft polymerization ion exchange columns

Applications

Figure 1 shows a comparison of a standard protein separation on a TSKgel BioAssist S column and conventional ion exchange columns. It is clear that TSKgel BioAssist S possesses a higher retention and demonstrates a higher resolution of the sample proteins compared to the conventional products.

Figure 2 shows chromatogram comparisons of mouse ascites fluid analyses. Excellent separation between the antibody and albumin has been obtained using a TSKgel BioAssist Q column.

Figure 1. Comparison of standard protein separation by TSKgel BioAssist S and conventional columns

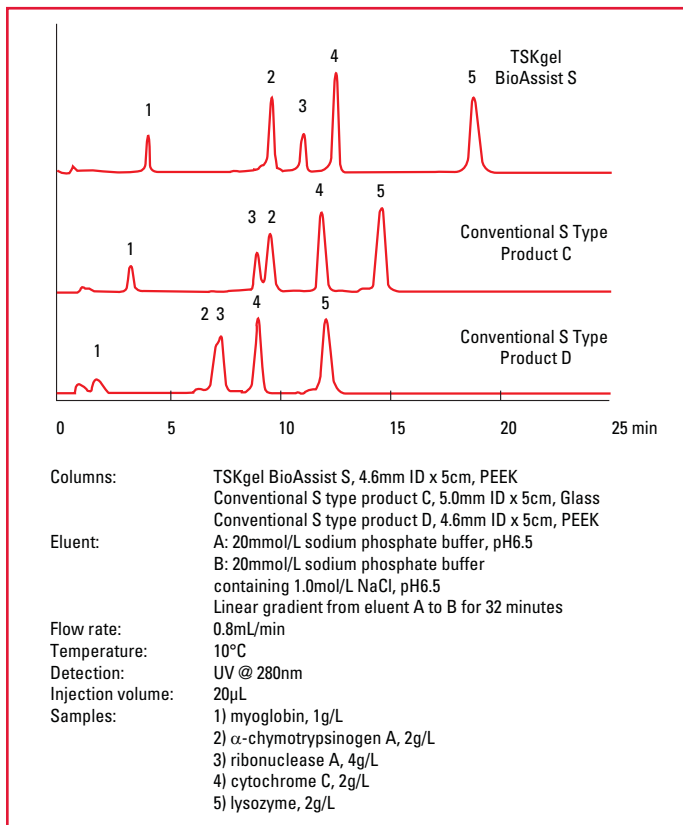
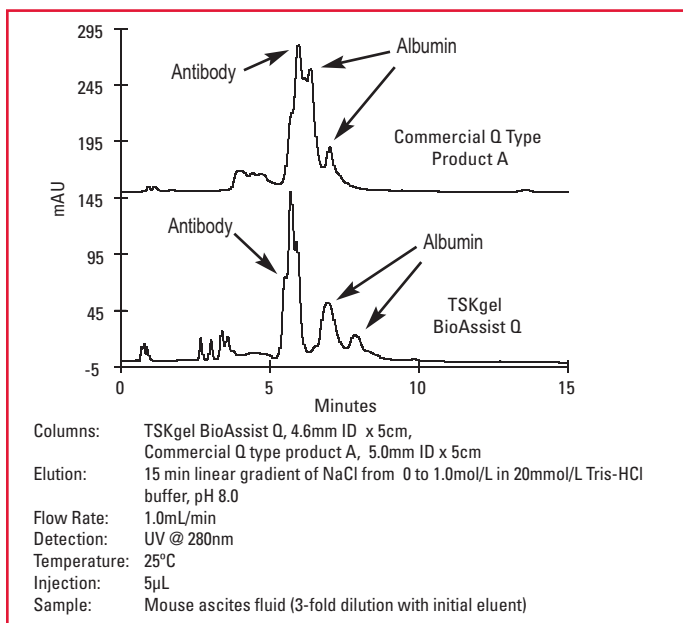


Figure 2. Analysis of mouse ascites fluid on TSKgel BioAssist Q and competitive columns



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Ordering Information

Part #	Description	Matrix	Housing	ID (mm)	Length (cm)
19685	TSKgel BioAssist Q, 10μm, 4000Å	Polymer	PEEK	4.6	5
21410	TSKgel BioAssist Q, 13μm, 4000Å	Polymer	PEEK	10	10
19686	TSKgel BioAssist S, 7μm, 1300Å	Polymer	PEEK	4.6	5
21411	TSKgel BioAssist S, 13μm, 1300Å	Polymer	PEEK	10	10



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