DATA SHEET

WorkBeads™ 40/100 SEC
WorkBeads 40 SEC
WorkBeads 40/10 000 SEC

High Performance Size Exclusion Chromatography Media for laboratory and process scale separation of proteins and molecules. Made from agarose, well established and wellknown in the biotech industry

- **Excellent resolution**
- **Robust separation across a wide range of proteins and molecules**
- **Chemically stable media**

Media Description

All WorkBeads40 SEC media are produced from agarose using a proprietary cross linking method that results in a highly porous and physically stable agarose matrix. Agarose based matrices has been successfully used over decades in biotechnology research and in the industrial purification of proteins. Agarose is proven to be excellently compatible with natural biomolecules like proteins, DNA carbohydrates etc. The material shows minimal non specific interaction due to hydrophilic nature of agarose. Unlike matrices made from synthetic polymers, agarose does not have micro pores that can contribute to local pH variations in the microenvironment in the column and distorted separations

WorkBeads 40 SEC for Size Exclusion Chromatography has a high selectivity which means the protein peaks are well separated with greater distance from each other than comparable products made from synthetic polymers. This means that the media has capacity to separate proteins well even when using high proteins loadings.

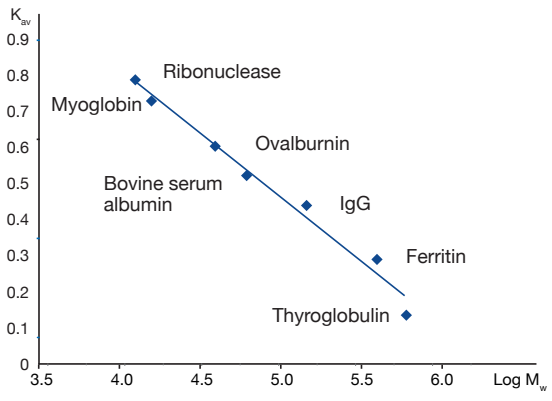

Figure 1. Shows the K_{av} curve for some common proteins. The dimer of thyroglobulin elutes in V_o and the other proteins nicely follow the theoretical K_{av} relation.

Bio-Works

Resolution is the combined effect of selectivity (distance between peaks) and efficiency (peak width, depending on particle size). Separation media based on agarose are well known for excellent selectivity. The narrow particle size distribution around 40 micrometer in combination with cross-linking results a media that is easy to pack in columns with very high efficiency and good flow characteristics.

WorkBeads 40 SEC is designed for high performance protein separations under a variety of conditions. The high resolution that can be obtained makes ideal for both preparative work and process scale separation of proteins.

Media description

WorkBeads 40 SEC

For separation of proteins 50-1200 kD	
Agarose content %	7
Exclusion limit	1200 kD
Flow rate; cm/h	600
Average particle size; µm	45
pH stability	2-13

WorkBeads 40/100 SEC

For separation of proteins 10-150 kD	
Agarose content %	9
Exclusion limit	150 kD
Flow rate; cm/h	600
Average particle size; µm	45
pH stability	2-13

WorkBeads 40/10 000 SEC

For separation of very large proteins and virus particles	
Agarose content %	5
Exclusion limit	10 000 kD
Flow rate; cm/h	600
Average particle Size; µm	45
pH stability	2-13

The media are preserved in 20% ethanol.

Ordering information

Product name	Pack size	Article number
WorkBeads 40 SEC	Bulk Media – 25 ml	40 300 001
WorkBeads 40 SEC	Bulk Media – 300 ml	40 300 003
WorkBeads 40 SEC	Bulk Media – 1 L	40 300 010
WorkBeads 40 SEC	Bulk Media – 5 L	40 300 050
WorkBeads 40/10 000 SEC	Bulk Media – 25 ml	40 350 001
WorkBeads 40/10 000 SEC	Bulk Media – 300 ml	40 350 003
WorkBeads 40/10 000 SEC	Bulk Media – 1 L	40 350 010
WorkBeads 40/10 000 SEC	Bulk Media – 5 L	40 350 050
WorkBeads 40/100 SEC	Bulk Media – 25 ml	40 340 001
WorkBeads 40/100 SEC	Bulk Media – 300 ml	40 340 003
WorkBeads 40/100 SEC	Bulk Media – 1 L	40 340 010
WorkBeads 40/100 SEC	Bulk Media – 5 L	40 340 050

Order direct on info@bio-works.net or through your local distributor.

Bio-Works

Bio-Works Technologies AB
Virdings allé 18
754 50 Uppsala
Sweden

www.bio-works.net
info@bio-works.net