Bio-Works

Instructions for use

WorkBeads 40 Ni

Product Name	Volume	Article Number
WorkBeads™40 Ni	**Bulk Media – 25 ml**	**40 650 001**
WorkBeads™40 Ni	**Bulk Media – 150 ml**	**40 650 003**
WorkBeads™40 Ni	**Bulk Media – 1 L**	**40 650 010**

UNPACKING AND INSPECTION

Unpack the shipment as soon as it arrives and inspect it for damage. Promptly report any damage or discrepancies to your local supplier or directly to Bio-Works

STORAGE

WorkBeads 40 Ni media is supplied as aqueous suspensions containing 22% ethanol as preservative. The gels can be stored at room temperature. We recommend adding ethanol or sodium azide, if stored in buffer, to prevent bacterial growth.

PACKING OF BULK MEDIA

The beads are cross-linked with a proprietary method that results in very rigid beads that can take pressure of several bars and run at high flow rates. Follow this general advice when packing a column as well as the column manufacture's specific instructions. Preferably, use a column with an adjustable adaptor. In some instances a packing reservoir or column extension may be used.

Make 50% slurry of the gel and pour into the column. Pack the media with a downward flow higher that the intended operational flow or 7 - 10 cm/min linear flow rate. When the bed height is constant, stop the flow and place the adjustable adaptor on top of the packed bed and squeeze it down approximately 2 mm into the bed (axial compression).

Equilibrate the column with a few column volumes of buffer and the column is ready for use.

ADSORPTION AND DESORPTION CONDITIONS

Typical conditions used
Binding: 20 mM sodium phosphate 0.5-1 M NaCl, 20-40 mM imidazole.pH 7.4 (pH 7-8)
Imidazole concentration is application dependent and should be tried out.
Washing: as above with 20-40 mM imidazole
Elution: 20 mM sodium phosphate 0.5-1 M NaCl, 300-500 mM imidazole (protein dependent) pH 7.4 (pH 7-8).
Elution conditions are protein dependent and should be tried out. The higher concentration will ensure maximum elution whilst the lower could result in protein loss.
Sample: dissolved or suspended in binding buffer