BIOTECH SUPPORT GROUP

NuGel™ P-Hydrophobic Support

Large Scale Chromatography Media for Proteins
Polymer Coated Hydrophobic Support

- Non-specific sites are virtually eliminated by a polymer coating
- Stable across a wide pH range 2 - 10
- Solvent compatible
- 1000Å, 50Å Silica suitable for LC and batch processes

Unique polymer coated hydrophobic support have been developed for large scale purification of biological macromolecules (i.e. proteins, peptides etc). The proteins and peptides are eluted from the hydrophobic support in order of hydrophobicity by decreasing salt concentration or pH.

For Separation of Proteins, Antibodies, Enzymes, Hormones, Peptides, Haptens, Drugs, Etc.						
Product Name	**Matrix**	**Ligand**	**Size**	**Column Volume (Approximately)**	**Item No.**	**Price**
NuGel™ P-Butyl	NuGel™	C4	25 Grams	50 ml	501-25	$315
NuGel™ P-Butyl	NuGel™	C4	100 Grams	200 ml	501-100	$500
NuGel™ P-Octyl	NuGel™	C8	25 Grams	50 ml	502-25	$315
NuGel™ P-Octyl	NuGel™	C8	100 Grams	200 ml	502-100	$500
NuGel™ P-Phenyl	NuGel™	Phenyl	25 Grams	50 ml	506-25	$315
NuGel™ P-Phenyl	NuGel™	Phenyl	100 Grams	200 ml	506-100	$500

* Kilogram quantities and other particle sizes and porosity of NuGel™ are also available upon request.

Storage

Supplied as a powder. When not in use, keep sealed. For best results store at 4°C unless otherwise noted on container.

Operating Mode

Since the support matrix is based on a rigid 50 µm particle, NuGel™ can be operated in low pressure pump or gravity flow columns, or in batch mode.

Batch Mode: Use NuGel™ in batch mode affinity separations (bind-wash-elute), by mixing the support with an orbital shaker, or by inversion mixing. Do not use magnetic stirrers. Separation can be done by filtration or centrifugation.

Column Mode: Close bottom valve before pouring beads. Thoroughly resuspend the media in equilibration buffer and pour into the column. Allow the media to settle to the desired column height. Slowly open the column valve so as to gravity drain the media. Install the adjustable plunger and pump buffer into the top of the column for 10 minutes to compress the bed and remove any entrapped air bubbles. Lower adjustable plunger to new bed height.

Recommended Protocol

- Recovery in all cases is greater than 98%.

- Rapid Separation on NuGel™ Polymer Coated Hydrophobic Support
- **Mode of Operation:** Batch mode or column mode**.**
- **Buffer:** (a) 0.025M phosphate + 2M NaCl PH 7.0
  (b) 0.025M phosphate + 0.1M NaCl pH 7.0
- **Step Elution Recommended**
- **Flow Rate:** 8ml/min
- **Pressure :** 5 PSI
- **Protein Concentration:** 5mg/ml
- **Recovery:** 98%

NOTE: The proteins and peptides are eluted from the hydrophobic support in order of hydrophobicity by decreasing salt concentration or pH.

Regeneration

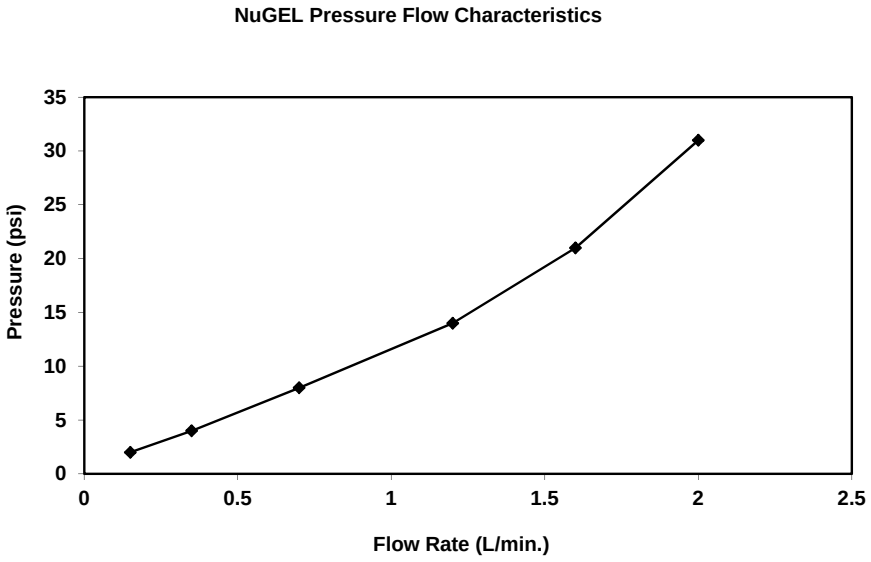
- Wash the column with a high pH buffer (e.g phosphate pH 9.0)and a low pH buffer (e.g acetate pH 3.8) and with addition of 0.5M NaCl in each buffer. Methyl or ethyl alcohol (20-50%) or chaotropic reagents may be used if necessary. Pass 5 column volumes of water and then re-equilibrate with the desired buffer.

Pressure Flow Test Conditions

Column: Pharmacia K100/45

Bed Diameter: 10 cm
Bed Height: 9.3 cm
Bed Volume: 730 ml

Mobile Phase: DI Water, ambient temperature



We welcome your questions and comments regarding our products.

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