



dynamic binding capacities (DBC) for peptides and small proteins. Table 1 shows a comparison of insulin dynamic binding capacities of various resins.

A typical DBC of 49 g/L for insulin makes TSKgel SP-3PW (30) attractive for all peptide and small protein purification tasks that involve a cation exchange step.

#### INSULIN DYNAMIC BINDING CAPACITIES

|                              | TSKgel SP-3PW (30) | TSKgel SP-5PW (30) | PS-DVB (30) S Type Resin   |
|------------------------------|--------------------|--------------------|----------------------------|
| <b>Matrix</b>                | polymethacrylate   | polymethacrylate   | polystyrene divinylbenzene |
| <b>Particle size</b>         | 30 µm              | 30 µm              | 30 µm                      |
| <b>Insulin DBC</b>           | 49 g/L             | 24 g/L             | 45 g/L                     |
| <b>Ion exchange capacity</b> | 0.12 eq/L          | 0.09 eq/L          | 0.08 eq/L                  |
| <b>Pore size</b>             | 250 Å              | 1000 Å             | NR                         |

Table 1

Column: 4.6 mm ID x 7.5 cm L  
 Eluent: Acidic buffer (pH 3.0) containing neutral salt and 1-propanol  
 Flow rate: 0.75 ml/min (270 cm/h)  
 Sample: Recombinant insulin (7.2 g/L)

DBC calculated at 10% breakthrough

For further details of choice and selection of the  
TOYOPEARL® or TSK-GEL® resin that best suits  
your particular separation needs, please contact us:

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[www.toyopearl.com](http://www.toyopearl.com)

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## Ordering information

### TSK-GEL SP-3PW (30)

| Part-No | Description        | Resin volume | Pore size | Particle size |
|---------|--------------------|--------------|-----------|---------------|
| 21976   | TSKgel SP-3PW (30) | 25 mL        | 250 Å     | 30 µm         |
| 21977   | TSKgel SP-3PW (30) | 250 mL       | 250 Å     | 30 µm         |
| 21978   | TSKgel SP-3PW (30) | 1 L          | 250 Å     | 30 µm         |
| 21979   | TSKgel SP-3PW (30) | 5 L          | 250 Å     | 30 µm         |

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