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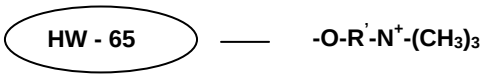
PRODUCT SPECIFICATION SHEET

Product Name: **Toyopearl® SuperQ-650** (strong anion exchange resin with high capacity)



Part Numbers:

19823	Toyopearl SuperQ-650S, 35 µm, 25 mL
17223	Toyopearl SuperQ-650S, 35 µm, 250 mL
17224	Toyopearl SuperQ-650S, 35 µm, 1 L
17225	Toyopearl SuperQ-650S, 35 µm, 5 L
43205	Toyopearl SuperQ-650M, 65 µm, 100 mL
17227	Toyopearl SuperQ-650M, 65 µm, 250 mL
17228	Toyopearl SuperQ-650M, 65 µm, 1 L
17229	Toyopearl SuperQ-650M, 65 µm, 5 L
43275	Toyopearl SuperQ-650C, 100 µm, 100 mL
17231	Toyopearl SuperQ-650C, 100 µm, 250m L
17232	Toyopearl SuperQ-650C, 100 µm, 1 L
17233	Toyopearl SuperQ-650C, 100 µm, 5 L
21362	ToyoScreen SuperQ-650M, 1 mL x 6 ea.
21363	ToyoScreen SuperQ-650M, 5 mL x 6 ea.
21392	ToyoScreen IEC Anion Mix Pack, 1 mL x 3 grades x 2 ea. (DEAE, SuperQ, QAE)
21393	ToyoScreen IEC Anion Mix Pack, 5 mL x 3 grades x 2 ea. (DEAE, SuperQ, QAE)
21396	ToyoScreen IEC Mix Pack, 1 mL x 6 grades x 1 ea. (DEAE, SuperQ, QAE, CM, SP650, SP-550)
21397	ToyoScreen IEC Mix Pack, 5 mL x 6 grades x 1 ea. (DEAE, SuperQ, QAE, CM, SP650, SP-550)
21400	ToyoScreen Column Holder
42194	ToyoScreen Column Holder with fittings

Product Description: **Toyopearl** is a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalised “HW” series resins for size exclusion separations, and derivatised with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

Toyopearl SuperQ-650 chromatographic resin is designed for anion exchange chromatography. This chromatographic mode separates molecules on the basis of ionic interactions between the sample and the resin. The separation is usually accomplished in buffered aqueous solution with a gradient of increasing ionic strength. Alternatively, pH adjustment may be used for control of elution.

Formulation: Particulate resin (spherical), available in particle sizes (mean diameter):
35 µm = “S” grade
65 µm = “M” grade
100 µm = “C” grade
Supplied as slurry in 20 % ethanol (v/v).

Physicochemical Specifications:

▪ Appearance	White resin slurry which settles upon standing

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▪ Particle Size Distribution (>80 % within range)	20 – 40 µm for Super Q-650S 40 – 90 µm for Super Q-650M 50 – 150 µm for Super Q-650C
▪ Exclusion Limit	2.5 x10^5 Dalton (globular protein)
▪ Mean Pore Diameter	400 Å
▪ Pressure drop across the column	max. 7 bar (recommended)
▪ Operating Linear Flowrate	normally 10 – 600 cm/hour (depending on particle size)
▪ Ion Exchange Capacity	0.25 ± 0.05 meq/mL
▪ Protein Adsorption Capacity	130 ± 25 mg/mL (Bovine Serum Albumin)
▪ Bacterial Count	≤ 100 CFU/mL
▪ Endotoxin Concentration	≤ 10.0 endotoxin units/mL
▪ Pack sizes and type	50 mL, 100 mL, 250 mL, 1 L, 5 L, 50 L Packed in virgin Polyethylene container with Polypropylene cap.
▪ Resin Volume per Container	The indicated volume is the settled resin volume.
▪ Shipping Solvent	72 % (v/v) slurry in 20 % (v/v) ethanol
▪ Long Term Storage Conditions	20 % (v/v) ethanol
▪ Cleaning in Place / Sanitization	0.5 M NaOH or 0.1 M HCl
▪ Foreign Substance	not observed, no visual evidence
▪ Eluable Matter	< 0.1 %
▪ Shelf Life Stability	Minimum 5 years

For detailed test procedures please refer to Regulatory Support File BB-MF-3907.