

RESIN INFORMATION SHEET

Product Name	TOYOPEARL [®] AF-Carboxy-650M (Reactive resin for affinity chromatography)		
Part Numbers	0043412	TOYOPEARL AF-Carbox	y-650M, 10 mL
	0008006 TOYOPEARL AF-Carbo		y-650M, 25 mL
	0008041 TOYOPEARL AF-Carboxy-		y-650M, 100 mL
	0018827	3827 TOYOPEARL AF-Carboxy-650M, 1 L	
	0018828	TOYOPEARL AF-Carbox	y-650M, 5 L
Product Description	 TOYOPEARL chromatographic resins are based on a rigid methacrylic polymer, resulting in high mechanical and chemical stability. Resins are available as non-functionalized "HW" series resins for size exclusion separations, and derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations. TOYOPEARL AF-Carboxy-650M is a reactive support resin for affinity chromatography. The product provides a useful and mild approach for coupling to amino groups of proteins or low molecular weight ligands to TOYOPEARL HW-65 resin. The carbodiimide mediated coupling reaction produces an amide bond between ligand and support resin. 		
Operating			
Operating Conditions	Packing pressure		Typically 0.3 MPa
Conditions	Shipping solvent		20 % (v/v) ethanol
	Shipping formulation		72 % (v/v) slurry in shipping solvent (*)
	Pressure limiting factor		Depend on column hardware (typically 0.7 MPa)
	Operating linear flowrate		Typically 10 – 600 cm/hour
	Long-term storage conditions		20 % (v/v) ethanol
Specifications	Particle size distribution (min. 80 % within range)		40 – 90 μm
	lon exchange capacity		0.08 – 0.12 eq/L
	Bacterial count		Max. 100 CFU/mL
	Endotoxin concentration		Max. 10.0 EU/mL
	Eluable matter		Max. 0.2 % (for dry gel)
	Foreign substance (colored particle)		Unobserved
Additional	Appearance		White resin slurry which settles upon standing
Information	Mean pore diameter (base resin)		100 nm (*)

(*) The value is for reference only, not guaranteed.

Lot-specific data are included in the Certificate of Analysis (COA) shipped with the product. For detailed test procedures please refer to the appropriate Regulatory Support File.