# **Toyopearl® Super Butyl-550C**

for Hydrophobic Interaction Chromatography of Proteins and Peptides

#### TOYOPEARL PRODUCT OVERVIEW

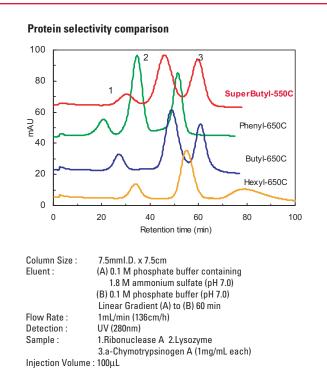
### Introduction

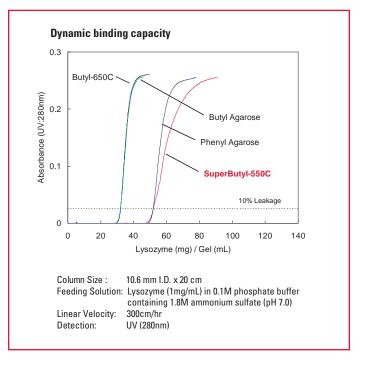
Toyopearl Super Butyl-550 (500Å) is a smaller pore size version of Tosoh Bioscience's popular hydrophobic interaction resin Toyopearl Butyl-650 (1,000A) product. Its backbone is the same high performance hydroxylated methacrylic polymer used for all Toyopearls The smaller pore diameter creates higher surface area than our standard Toyopearl Butyl-650 and more binding capacity for accessible proteins.

Toyopearl Super Butyl-550 has similar selectivity and hydrophobicity to Toyopearl Butyl-650. The difference in pore sizes now adds a second degree of freedom to the Butyl line for doing "flow-through" or "negative" chromatography. In "flow-through" chromatography, the pore size chosen selectively excludes the larger targets of interest away from the included smaller impurities.

# Product Highlights

- Up to 60% higher dynamic binding capacity than Toyopearl Butyl-650C
- Higher throughput possibilities for existing Toyopearl Butyl-650 processes
- · Low non-specific binding
- · Higher recovery than agarose materials for molecules like BSA





Toyopearl is a registered trademark of the Tosoh Corporation.



### **Specifications**

Particle Size Distribution	Min. 80% (50 - 150µm)	
Pressure Drop	Max 15kPa (at 4.00mL/min)	
Protein Adsorption Capacity	52 - 70g/L (of Lysozyme)	
Protein Elution Volume Lysozyme α-Chymotrypsinogen	43 - 53mL 57 - 65mL	
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	

## **Ordering Information**

Part #	Description	Resin Vol.
19955	Toyopearl Super Butyl-550C	25 mL
19956	Toyopearl Super Butyl-550C	100 mL
19957	Toyopearl Super Butyl-550C	1L
19958	Toyopearl Super Butyl-550C	5L
19959	Toyopearl Super Butyl-550C	50L



### **TOSOH BIOSCIENCE**

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