

Toyopearl® PPG-600

for Hydrophobic Interaction Chromatography of Monoclonal Antibodies, Hydrophobic Proteins, and Pegylated (polyethylene glycol modified) Targets

TOYOPEARL
PRODUCT OVERVIEW

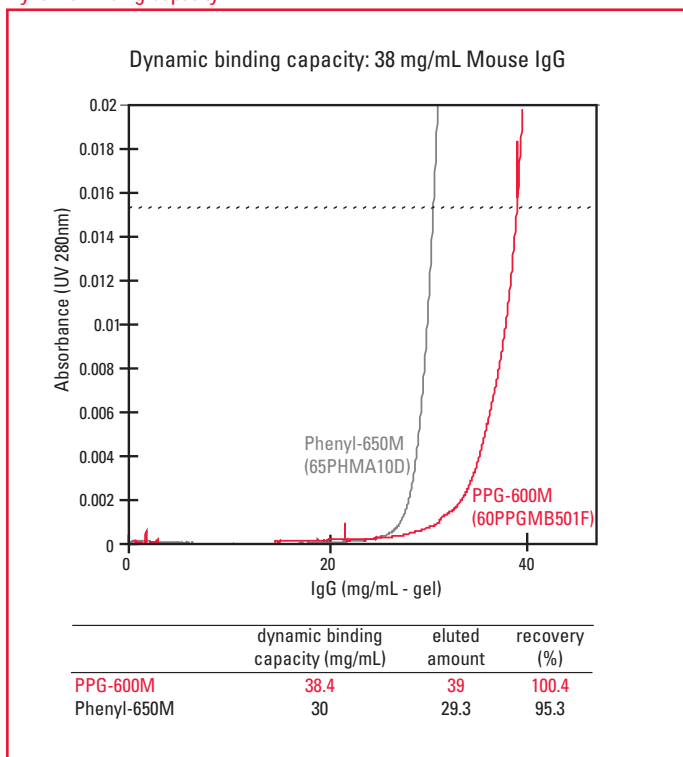
Introduction

Toyopearl PPG-600 is a unique hydrophobic interaction resin offered by Tosoh Bioscience. It is based on the same hydroxylated methacrylic polymer chemistry as the traditional Toyopearls, but with a novel polyether phase. The polyether ligand makes the resin more hydrophobic than Toyopearl Ether-650 but less hydrophobic than Toyopearl Phenyl-650. The 750 Å pore size is optimized for IgG and Toyopearl PPG-600 shows high IgG dynamic binding capacity, good selectivity from albumin, and exceptional mass and activity recovery.

This intriguing resin enables Tosoh Bioscience to offer a "Six-PaK" of resins for hydrophobic interaction chromatography: (in order of increasing ligand hydrophobicity)

Ether-650 < PPG-600 < Phenyl-650 < SuperButyl-550 < Hexyl-650
Butyl-650

Dynamic Binding Capacity



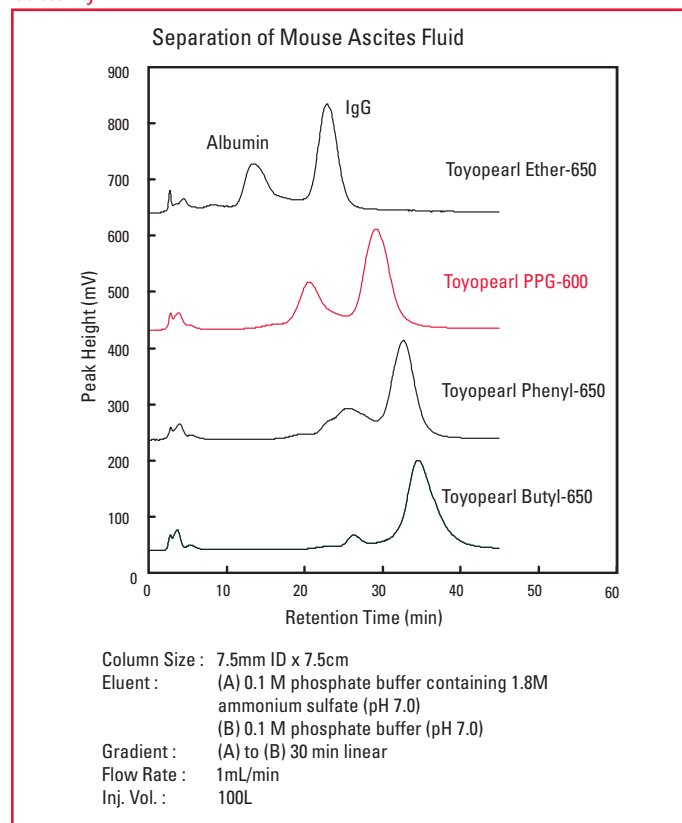
Product Highlights

- pore size optimized for monoclonal antibody separations
- good to high dynamic binding capacity with typically greater than 95% mass recovery
- retention of high biological activity
- excellent selectivity between albumin and monoclonals

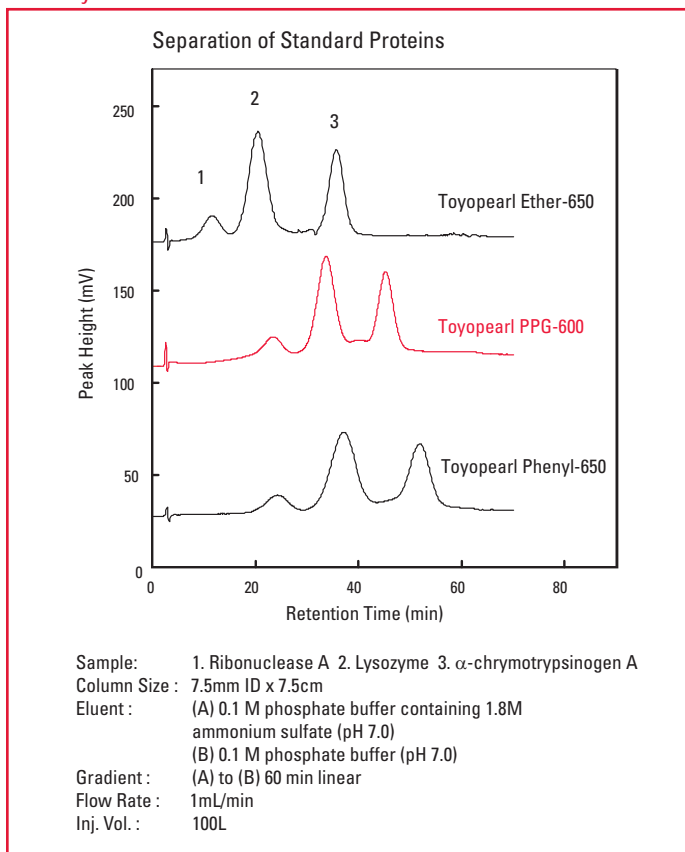
NOTE: As resin hydrophobicity increases some target molecules may demonstrate lower mass recovery or activity. So selecting the best resin for a particular molecule is normally a balance of its binding capacity, selectivity, and recovery for a given media. By offering 6 ligand/pore size combinations for HIC Tosoh Bioscience offers a rainbow of selectivities for customer evaluation.

In addition to the monoclonal applications, the Toyopearl PPG-600 polyether ligand also excels with hydrophobic proteins between 20-150kDa in size. Certain pegylated molecules also may take advantage of its unique selectivity.

Selectivity



Selectivity



Specifications

Particle Size Distribution	Min. 80% (50 - 150 μ m)
Pressure Drop	Max 22kPa (at 37.8mL/min)
Protein Adsorption Capacity	20 - 35g/L (of γ -globulin)
Protein Elution Volume BSA IgG1 (Anti-LH MAb)	43 - 53mL 57 - 65mL

Ordering Information

Part #	Description	Resin Vol.
21301	Toyopearl PPG-600M	25 mL
21302	Toyopearl PPG-600M	100 mL
21303	Toyopearl PPG-600M	1L
21304	Toyopearl PPG-600M	5L
21305	Toyopearl PPG-600M	50L



TOSOH

TOSOH BIOSCIENCE

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