

TOYOPEARL GigaCap® DEAE-650M

for high capacity Anion Exchange Chromatography of small and large proteins

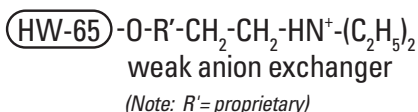
TOYOPEARL
PRODUCT OVERVIEW

Introduction

TOYOPEARL GigaCap DEAE-650M is a very high capacity anion exchange resin for process scale applications. TOYOPEARL® HW-65 is the polymeric base bead chemically modified to provide a greater number of anionic binding sites, resulting in increased binding capacity. TOYOPEARL GigaCap DEAE-650M exhibits typical dynamic binding capacities (DBC) approaching 170 g/L for bovine serum albumin (BSA).

TOYOPEARL GigaCap DEAE-650M maintains high capacity across a range of linear velocities, exhibits excellent pressure-flow characteristics and the resin's 50-100 µm particles are stable to pressures of up to 0.3 MPa.

STRUCTURE:



Product Attributes

Pore size (mean):	100 nm
Particle size (mean):	75 µm
Pressure rating:	0.3 MPa
Shipping buffer:	20% ethanol
pH stability:	2-13
Shelf life (estimated):	10 years

Good mass transfer kinetics enable the resin to maintain DBC at faster linear velocities (Figure 1). This fast uptake ability, when coupled with the narrow elution peak typical of TOYOPEARL GigaCap resins, results in smaller and more concentrated in-process pool volumes, thus reducing the amount of water for injection needed and increasing process throughput downstream.

TOYOPEARL GigaCap DEAE-650M is base stable for at least 100 clean in place (CIP) cycles with 0.5 mol/L NaOH, making multiple uses of the resin possible (Figure 2).

Figure 1. DBC at higher linear velocities

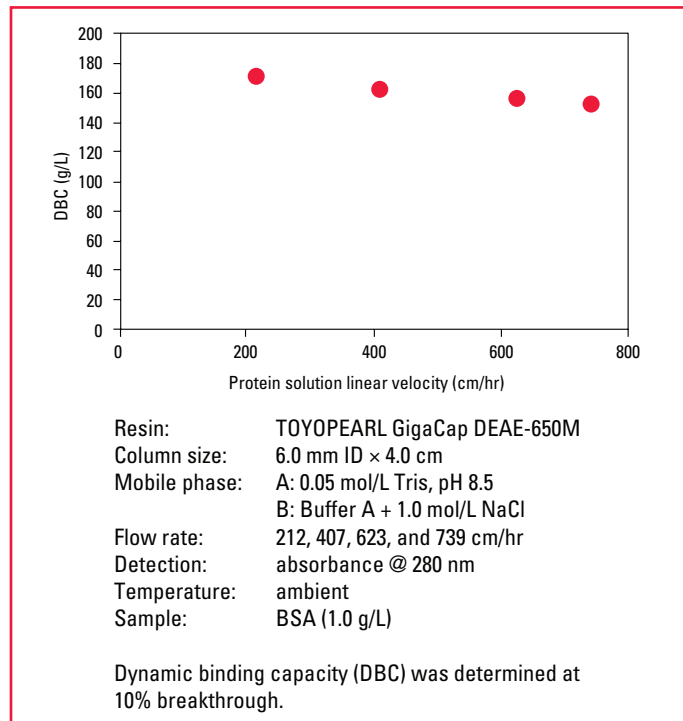
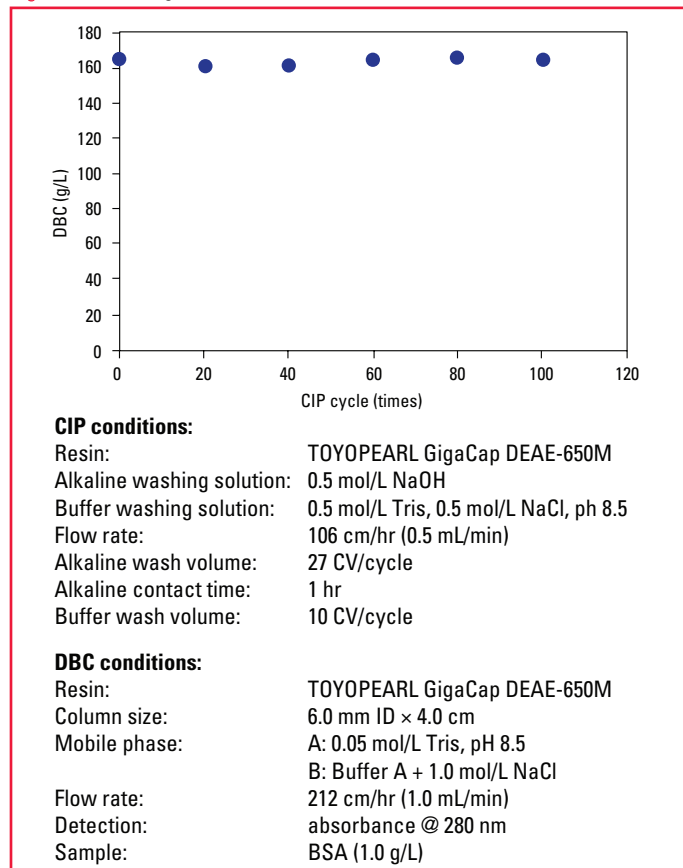


Figure 2. CIP Using 0.5 mol/L NaOH



TOSOH BIOSCIENCE

TOSOH

Ordering Information

Part#	Description	Volume
22865	TOYOPEARL GigaCap DEAE-650M, 75 µm	100 mL
22866	TOYOPEARL GigaCap DEAE-650M, 75 µm	250 mL
22867	TOYOPEARL GigaCap DEAE-650M, 75 µm	1 L
22868	TOYOPEARL GigaCap DEAE-650M, 75 µm	5 L
22869	TOYOPEARL GigaCap DEAE-650M, 75 µm	50 L
22872	ToyoScreen GigaCap DEAE-650M	1 mL × 6
22873	ToyoScreen GigaCap DEAE-650M	5 mL × 6

Tosoh Bioscience, TOYOPEARL, TOYOPEARL GigaCap and ToyoScreen are registered trademarks of Tosoh Corporation.



TOSOH BIOSCIENCE

TOSOH

TOSOH BIOSCIENCE LLC
3604 Horizon Drive, Suite 100
King of Prussia, PA 19406
Tel: 800-366-4875
email: info.tbl@tosoh.com
www.tosohbioscience.com

PO34
0313