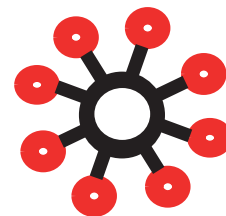
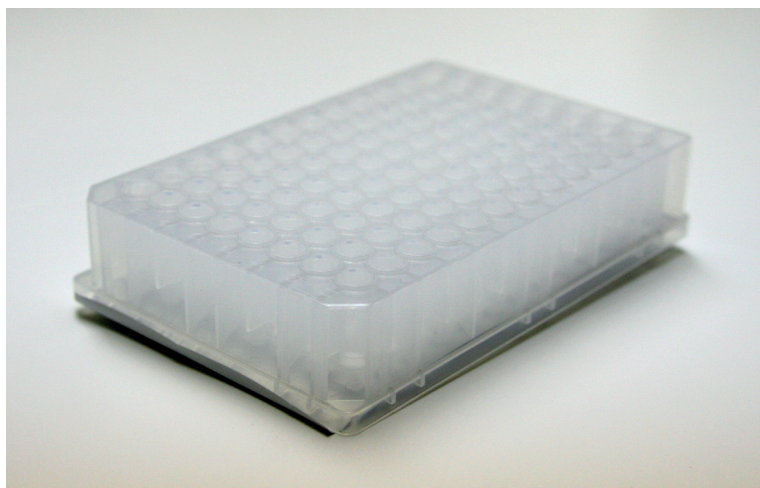


# Resin Seeker CIEX 96-well Plate Kit



P/N OC41MDCEX-96

*A method development kit for Cation Exchange Chromatography (CIEX)*



	1	2	3	4	5	6	7	8	9	10	11	12
A	●	●	●	●	●	●	●	●	●	●	●	●
B	●	●	●	●	●	●	●	●	●	●	●	●
C	●	●	●	●	●	●	●	●	●	●	●	●
D	●	●	●	●	●	●	●	●	●	●	●	●
E	●	●	●	●	●	●	●	●	●	●	●	●
F	●	●	●	●	●	●	●	●	●	●	●	●
G	●	●	●	●	●	●	●	●	●	●	●	●
H	●	●	●	●	●	●	●	●	●	●	●	●

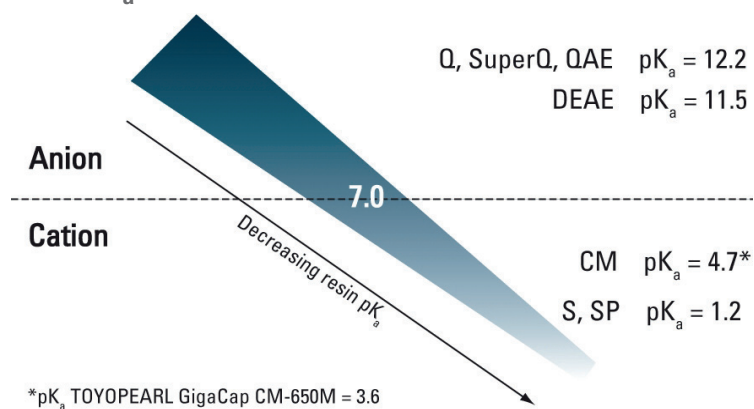
20  $\mu$ L resin volumes

Each kit includes both  
a collection and a wash plate.

## Resins used:

- TOYOPEARL GigaCap<sup>®</sup> S-650M
- TOYOPEARL GigaCap CM-650M
- TOYOPEARL<sup>®</sup> SP-550C
- TOYOPEARL CM-650C

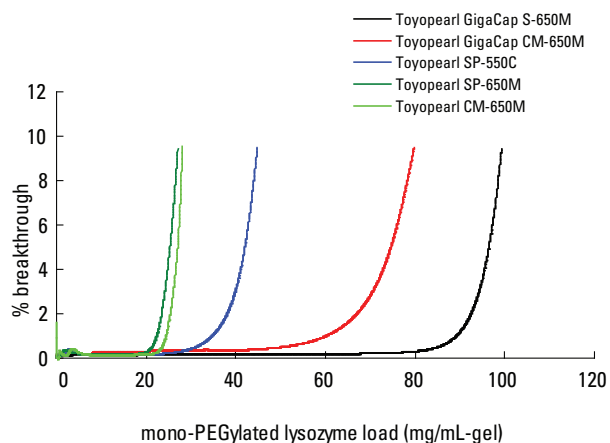
## pK<sub>a</sub> values for Ion Exchange groups



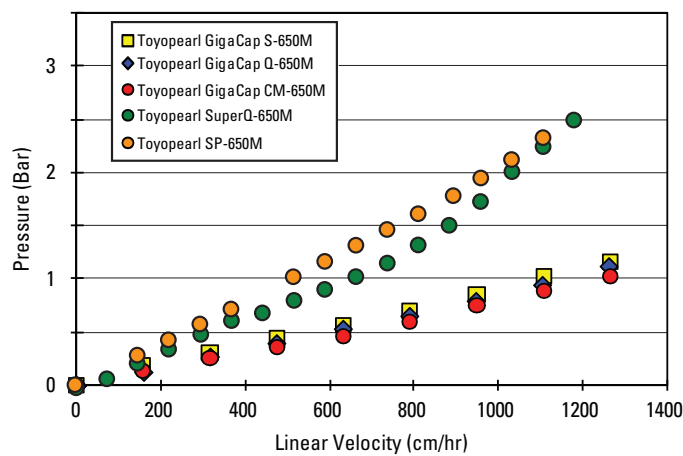
## Resin Physical Properties Comparison

Cation Exchange resin	Base bead	Pore size (Å)	Particle size (µm)	IEC (meq/mL resin)	DBC (hIgG) (mg/mL-gel)	Recovery (%)
Toyopearl GigaCap S-650M	HW-65	1,000	50-100	0.16	145	98
Toyopearl GigaCap CM-650M	HW-65	1,000	50-100	0.24	100	98
Toyopearl SP-650C	HW-65	1,000	50-150	0.12	12	98
Toyopearl CM-650C	HW-65	1,000	50-150	0.09	35 (lysozyme)	
Toyopearl SP-550C	HW-55	500	50-150	0.13	14	98

### Breakthrough curves of mono-PEGylated lysozyme using Toyopearl cation exchange resins



### Pressure-flow curve comparison of Toyopearl resins



Resins: Toyopearl GigaCap S-650M  
 Toyopearl GigaCap Q-650M  
 Toyopearl GigaCap CM-650M  
 Toyopearl SuperQ-650M  
 Toyopearl SP-650M

Column size: 22 mm ID × 20 cm  
 Mobile phase: distilled water  
 Temperature: 25 °C