

Yarra™ 3 µm SEC/GFC

guarantee

Ultra-High Resolution Size Exclusion for Biomolecules at an Unbelievable Price

- Extremely high efficiency 3µm particle
- Huge cost savings
- Extreme surface inertness

Starting with 3 µm ultra-pure silica, Yarra particles are densely bonded with a proprietary hydrophilic surface chemistry. Coupled with tight particle and pore size distribution as well as strict packing and QC specifications, Yarra columns allow for very high efficiency and resolution.



If Yarra analytical columns do not provide you with at least an equivalent separation as any other GFC column of similar porosity, type, and dimensions, send in your comparative data within 45 days and keep the column for FREE.

Higher Efficiency, Much Lower Price Compared to TSKgel® — GUARANTEED!

Yarra

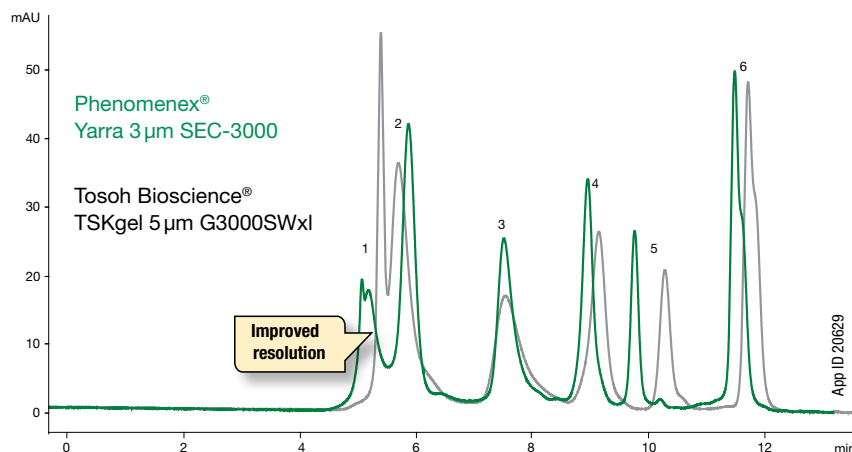
VS.

TSKgel*♦

SEC-2000	SEC-3000	SEC-4000		G2000SWxl	G3000SWxl	G4000SWxl
3	3	3	Particle Size (µm)	5	5	8
145	290	500	Pore Size (Å)	125	250	450
1 K - 300 K	5 K - 700 K	15 K - 1,500 K	MW Range in native conditions (Da)	5 K - 150 K	10 K - 500 K	20 K - 7,000 K
2.5 - 7.5	2.5 - 7.5	2.5 - 7.5	pH Stability	2.5 - 7.5	2.5 - 7.5	2.5 - 7.5
3000	3000	1700	Maximum Backpressure (psi)	1015	1015	508
50	50	50	Maximum Temperature (°C)	30	30	30
1.5	1.5	1.2	Maximum Flow Rate (mL/min)	1.2	1.2	1.2
48,000	48,000	38,000	Efficiency (minimum theoretical plates)	20,000	20,000	16,000

*Also guaranteed against other aqueous GFC columns 3µm or above.

Compare Yarra's Resolving Power to TSKgel's



Conditions for all columns:

Columns: Yarra 3µm SEC-3000

TSKgel 5µm G3000SWxl

Dimensions: 300 x 7.8 mm

Mobile Phase: 50 mM Sodium Phosphate pH 6.8 / 0.3M Sodium Chloride

Flow Rate: 1 mL/min

Backpressure: 99 bar

Temperature: Ambient

Detection: UV @ 220 nm

Sample:

1. IgM
2. Thyroglobin (699 kDa)
3. Beta Amylase
4. Ovalbumin (44 kDa)
5. Myoglobin (17 kDa)
6. Uridine

TSKgel is a registered trademark of Tosoh Corporation. Comparative separations may not be representative of all applications.

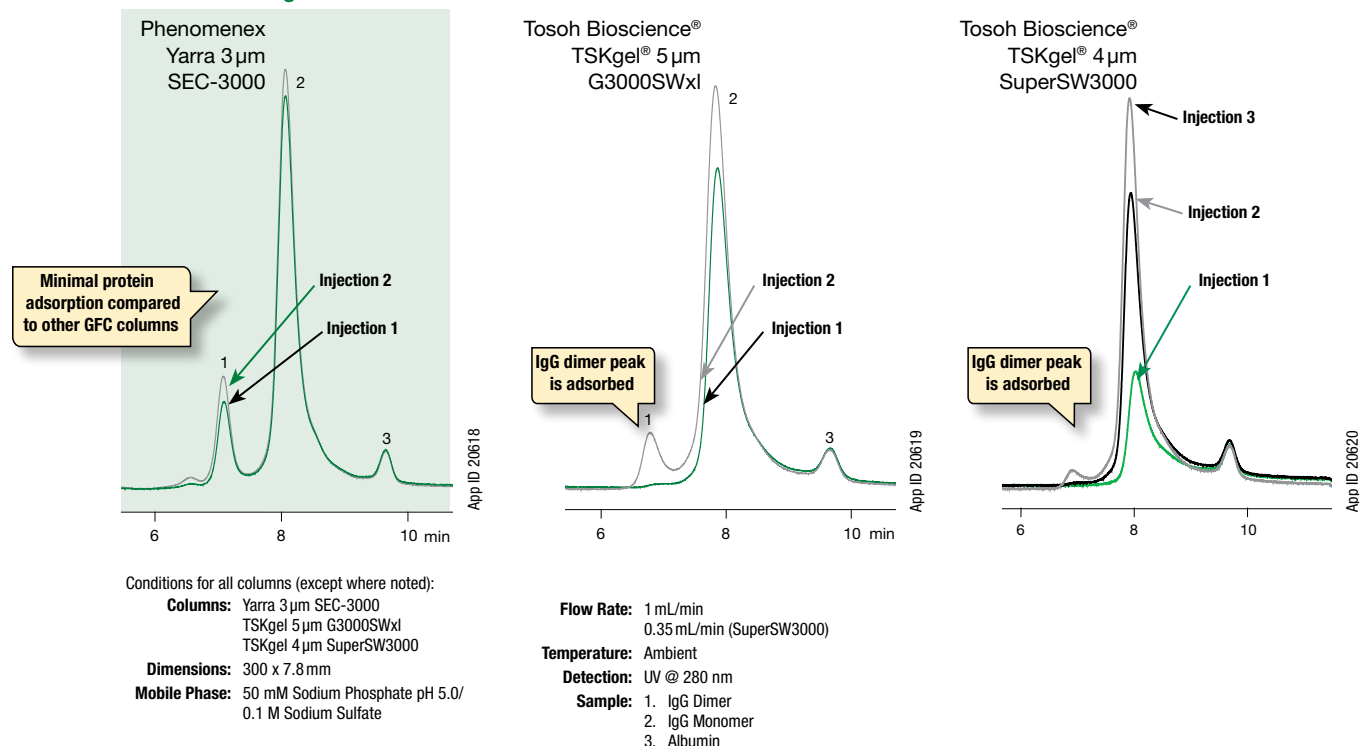
* All TSKgel specifications were taken from Tosoh Bioscience 2004-5 Laboratory Products Catalog

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Extreme Surface Inertness for Accurate and Confident Recoveries

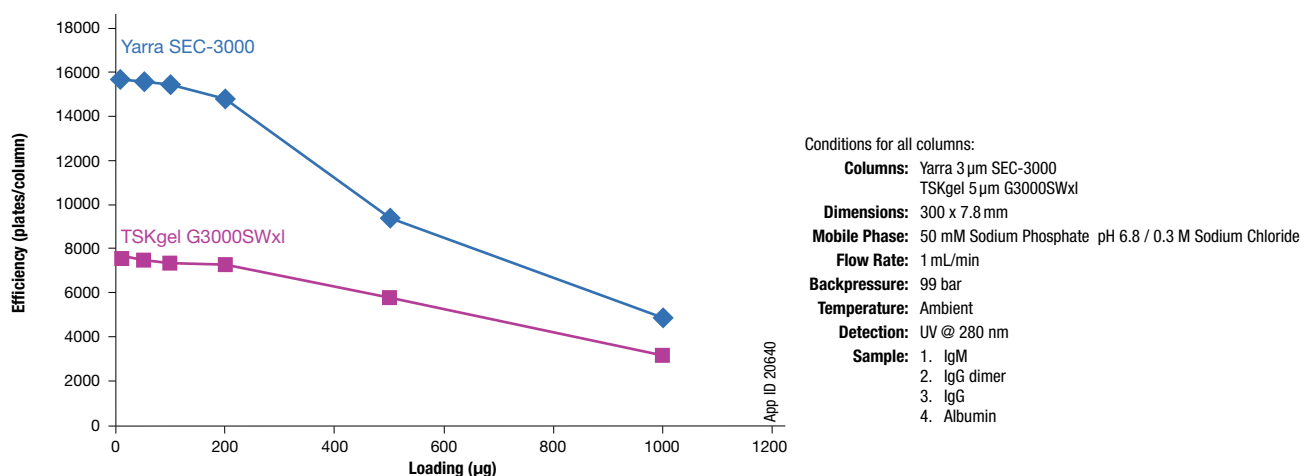
Phenomenex's proprietary surface chemistry provides an inertness hard to match by other GFC columns. The result is minimal adsorption of proteins and other protein aggregates leading to more accurate quantitation.

Minimal "Priming Effect" with Yarra Columns



Maintain High Efficiency Over a Broad Range of Loading Amounts

Due to the high loading capacity, Yarra demonstrates higher performance compared to other aqueous GFC columns under a wide loading range.



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