Fast Separation of IgM AND IgG Antibodies by Size-Exclusion Chromatography

Application
Biochemical
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Antibodies play a critical role in modern biotechnical research. The high specificity and affinity of antibodies for the analyte make them useful for molecular targeting, detection, and immunoassays. Use of antibodies often includes separation of small amounts of conjugated and non-conjugated forms, purification from reactants, and exchange of buffer components. As a result of the differences in molecular size of the components, size-exclusion chromatography is a powerful tool, well-adapted to these separations.

Highlights

• Unlike polymer-based or soft-silica packing materials, ZORBAX particles are extremely rugged even under high back-pressures. This characteristic allows higher flow rates and shorter run times (<4 min) for high-throughput experimentation.

• Injection volume of a antibody sample can be reduced (1-10 µL) without loss of sensitivity, when using smaller-diameter columns (4.6 mm).

Conditions:
ZORBAX GF-250 (4.6 x 250 mm) (Agilent P/N: 884973-701)
Mobile Phase: 200 mM Sodium Phosphate (pH 7), 0.01% Azide
Injection: 2.5 µL (1 mg/mL), 0.94 mL/min, Ambient, Detect. UV (230 nm)
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