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Merck launches chromatography media

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Singapore: Merck Millipore, the life science division of Merck, has launched two comprehensive chromatography portfolio to further accelerate downstream purification and improve process efficiency.

Eshmuno A is a rigid, high capacity, acid and alkaline resistant Protein A affinity chromatography media for the purification of monoclonal antibodies and other Fc-containing proteins. Higher binding capacities offered by Eshmuno A media in comparison with other commercially available Protein A media delivers increased productivity and lower costs.

Eshmuno A media can be cleaned and sanitized under acid and/or alkaline conditions while maintaining high dynamic binding capacity at high flow rates with no significant change in product purity.

In addition, the media offers an orthogonal solution for aggregate removal at both the front and tail ends of the elution peak from the Protein A column. This property of the Eshmuno A media is advantageous in reducing the burden of subsequent chromatography steps typically used in the purification of Fc-containing proteins.

"Optimizing the particle size and pore size of the Eshmuno base matrix along with the immobilization of our proprietary ligand enables a significant increase in dynamic binding capacity," stated Dr David Beattie, head Biopharm Process Solutions R&D, Merck Millipore.

He further added, "This allows for higher loading of the Fc-containing protein being purified, maximizing column throughput and improving process economics. The ability to increase capacity and throughput with the Eshmuno A media also allows our customers to more effectively process the high titers coming from upstream processing."

Chromabolt prepacked, pre-validated chromatography columns, available with a range of Merck Millipore chromatography resins, are designed for early clinical stage manufacturing. Pre-validation indicates the columns meet bioburden, endotoxin, HETP and asymmetry specification for the resin. The prepacked columns are compatible with all currently available chromatography systems and connectors, have easily accessible inlets and outlets, and offer faster set-up times compared to traditional columns.