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FOR IMMEDIATE USE Before July 16, 2017

Avantor® to Present Scientific Poster on Protein Separation at PREP 2017 Symposium in Philadelphia

Avantor scientists will discuss “Effect of Additives in Elution Buffers on Protein Separation with Ion-exchange Media” at upcoming symposium on preparative and process chromatography

Center Valley, PA (USA) – July 10, 2017 – [Avantor®](#) scientists will deliver a research poster titled “Effect of Additives in Elution Buffers on Protein Separation with Ion-exchange Media” at [PREP 2017—30th International Symposium on Preparative and Process Chromatography](#). The poster session takes place from 2:00 to 3:15 p.m. on Monday, July 17, 2017 at the Loews Hotel in Philadelphia, PA.

Nandu Deorkar, Vice President of Research and Development; B. Thiyagarajan, Group Leader; Hong Li, Entrepreneurial Scientist; and Quanyuan Zhang, Entrepreneurial Scientist, will discuss the results of an Avantor study to determine the effect additives have on protein separation using multimode and high-capacity ion-exchange ligands.

“As we have previously demonstrated, multimode chemistry is advantageous in [process chromatography](#) for separating closely related proteins due to its high selectivity,” said Deorkar. “To separate these proteins, the pH, type of buffers and conductivity are optimized to achieve the desired separation. However, there is limited understanding of the effects that additives can have on the separation efficiency of ion-exchange resins.”

Avantor’s study found that multimode and high-capacity ion-exchange resins showed different protein separation patterns with and without additives. The company’s J.T.Baker® BAKERBOND™ PolyCSx media ligand property enhances separation of very closely related proteins with an additive. The J.T.Baker® BAKERBOND™ PolySC-70 media provides dynamic binding capacity of about 95 mg/ml due to ligand property and density, but exhibits opposite effects of the PolyCSx media, as the additive does not increase separation of the same closely related proteins.

“Some additives have multiple charges at a given pH and conductivity, and can offer another dimension in separation,” said Deorkar.

More details of Avantor’s study will be available at PREP 2017.

For information about Avantor visit: www.AvantorInc.com or twitter.com/avantor_news or www.facebook.com/AvantorInc.

About Avantor

Avantor is a global supplier of ultra-high-purity materials for life sciences and advanced technology customers. The company provides performance materials and solutions for the production and research needs of approximately 7,900 customers across the biotechnology, pharmaceutical, medical device, diagnostics, aerospace & defense, and semiconductor industries.

Avantor's product portfolio includes more than 30,000 products that meet increasingly stringent standards across technology driven and highly regulated markets. Avantor manufactures and markets its products around the world under several respected brand names. Avantor's brands of performance chemistries include the J.T.Baker[®], Macron Fine Chemicals[™], Rankem[™], BeneSphera[™], Puritan Products[™], and POCH[™] brands. Avantor's brands of advanced silicones include the NuSil[™] and CareSil brands. For more information visit www.AvantorInc.com.

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