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Authors: Matthew R. Brown, Michael S. Burnham, Sarah A. Johnson, Scott C. Lute, Kurt A. Brorson, David J. Roush



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ACCEPTED MANUSCRIPT

Evaluating the Effect of In-Process Material

on the Binding Mechanisms of Surrogate

Viral Particles to a Multi-Modal Anion

Exchange Resin

Matthew R. Brown¹, Michael S. Burnham², Sarah A. Johnson¹, Scott C. Lute¹, Kurt A. Brorson¹, David J. Roush³

¹DBRRII, Office of Biotechnology Products, Office of Pharmaceutical Quality, Center for Drug Evaluation and Research, Food and Drug Administration, Silver Spring, MD 20993 ²WuXI AppTec, Inc., Philadelphia, PA ³Merck & Co., Inc., , BioProcess Development, Biologics and Vaccines, Kenilworth, NJ, USA

<u>Highlights</u>

- A multi-modal resin was tested with spiked mAb pools to determine the mechanism of viral clearance.
- The mechanistic removal of two bacteriophage species by multi-modal resin relies on a combination of moieties.
- Resin performance was impacted by process impurities which correlated to declining viral removal.

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