

PILOT SCALE IMPLEMENTATION OF A SINGLE-USE, HIGH INTENSITY, INTEGRATED PROCESS SYSTEM

Robert Kottmeier, Pfizer Inc.
robert.e.kottmeier@pfizer.com
John Galyas, Pfizer Inc.
Phil McCormick, Pfizer Inc.
Michael O'Connor, Pfizer Inc.
David Sullivan, Pfizer Inc.

Key Words: Single-Use, Pilot, Integrated, Continuous

Pfizer and Boehringer Ingelheim are developing pilot scale systems with entirely single-use flow paths that are fully integrated end-to-end under a single control system from bioreactor through downstream processing. These prototype systems are designed to run continuous processing from the bioreactor to downstream, and periodic processing to the end of the downstream system. This presentation shows the evolution of the systems including some novel single use technologies, details of some high-intensity run results, and offers future single use improvement ideas.