



Continuous Processing in Pharmaceutical Manufacturing

By Ganapathy Subramanian

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With contributions from biotechnologists and bioengineers, this ready reference describes the state of the art in industrial biopharmaceutical production, with a strong focus on continuous processes.

Recent advances in single-use technology as well as application guidelines for all types of biopharmaceutical products, from vaccines to antibodies, and from bacterial to insect to mammalian cells are covered. The efficiency, robustness, and quality control of continuous production processes for biopharmaceuticals are reviewed and compared to traditional batch processes for a range of different production systems.

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Editorial Review

About the Author

Dr. Ganapathy Subramanian is a biotechnology consultant with over 30 years experience in industry and academia, encompassing the application and development of processing, purification methodologies, and chromatographic systems for largescale use in environmental science, food science, perfumery, cosmetics, and pharmaceuticals. He has also taught extensively in the area of food and medical technology.

A chemistry graduate from Madras, India, Dr. Subramanian was awarded his doctorate, from the University of Glasgow, for work on natural products. His main research interests lie in the utilization of natural material separation processes and bioconversions.

Dr. Subramanian has written and edited a number of books and articles in the field of biotechnology. For the last 15 years, he has been organizing conferences promoting the integration and sharing of knowledge between academia and industry.

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