

Market insights take company into the blockbuster drug market



The Asset/Benefits

Asset: Prime Synthesis developed a new, functional, controlled porosity glass (CPG) for enhanced drug processing. The new media is potentially suitable to a wide range of purification applications and selective screening of biologics.

Benefits: The new product has two to three times the binding capacity, greater alkali resistance, and higher fidelity adsorption compared to commercially available media.



Prime Synthesis, Inc.

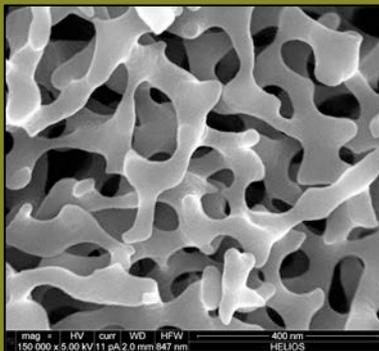


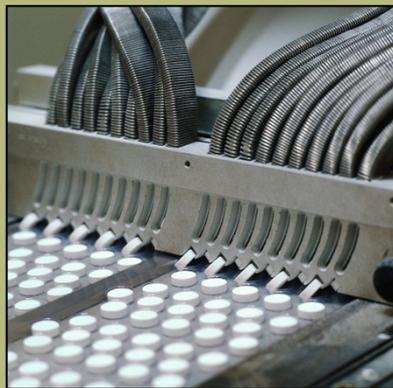
Photo Credit: SEM imaging performed at NIST in collaboration with A. E. Vladar, B. Ming, and J. A. Dagata, Semiconductor and Dimensional Metrology Division

Project Outcomes

- Profiled global bio-pharma market and value chain in detail, identifying best regions for growth and partnering.
- Characterized key aspects of market:
 - New product pipelines and regulations
 - Projected growth and size
 - Key players and customers.
- Identified purification step as key industry “bottleneck” for which new product offers novel solution.

Key Questions

- What are the drivers and structure for the biologic materials purification market?
- Who are the leading competitors and end customers for purification media?
- Is the technology suitable for the biologic purification market?
- Would users adopt a new media?
- What are the key regulatory and performance criteria?



Project Impact

As a result of this project, the client:

- Learned that opportunity were greater than expected in the production of billion-dollar blockbuster drugs.
- Developed a much more assertive approach to the marketplace.
- Adjusted partnering strategy; now citing \$24 million opportunity in new \$100 million market.
- Sourced \$150,000 in new funding and created new technology and patents.

“A magnificent job of characterizing the new biochemical processing market ... we got input on the new application from 10 of the leading experts in the industry.”

– Marc Rothstein, President, Prime Synthesis

