



Customer Case Study

Precipitation of API

Optimized Precipitate Size Boosts Filtration
Recovery from **90%** to **98%**

**Recovery
Boost**

**Real-Time
Monitoring**

**Size
Control**

**Yield
Improvement**

The Challenge

In pharmaceutical API precipitation, achieving the right particle size is critical for maximizing filtration recovery and yield. A pharmaceutical producer faced a critical challenge: precipitate particles were too small, slowing filtration and reducing recovery. Optimizing process conditions with traditional trial-and-error approaches was slow and inefficient.

The Approach

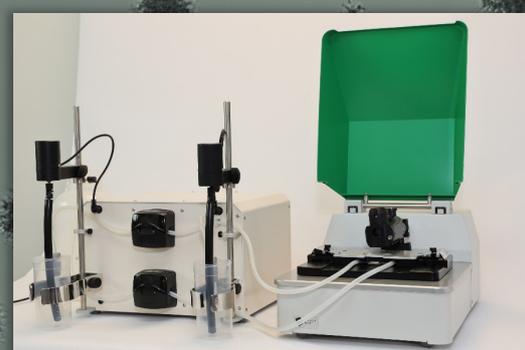
The ParticleTech Analyzer was used during lab-scale experiments to monitor particle size in real time. With instant measurements, the team quickly identified how to steer the process toward larger, filterable particles and improved impurity separation. This accelerated parameter refinement and eliminated the need for slow, iterative offline analyses.

The Implementation

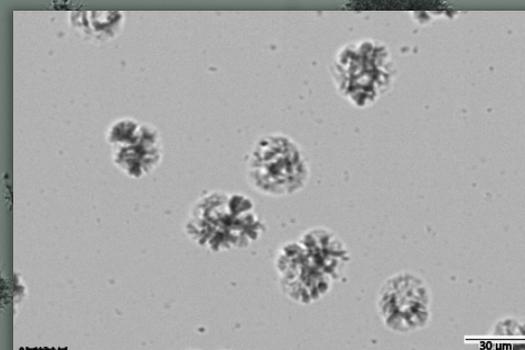
Within weeks, the optimized process increased filtration recovery from 90% to 98%. The ParticleTech Analyzer is now integrated into full-scale production, providing continuous monitoring of precipitate size and ensuring consistently high recovery rates.

The Result

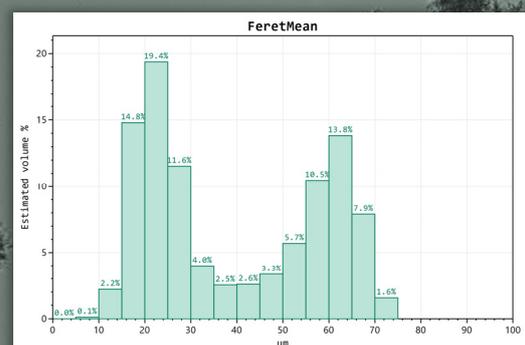
The customer accelerated development, improved recovery, and increased yield. Better particle control also enhanced product purity and filtration efficiency. With real-time monitoring, they now ensure consistent high performance at full scale.



ParticleTech Analyzer



Precipitates



Precipitate Size Distribution