



# Yield Optimization

**Life Sciences manufacturing is complex**, and when mixed with growing demand for safe and effective drugs, plus evolving compliance and regulatory requirements – the pressure is on for manufacturers to streamline and optimize their operational processes. Each step in the process has an impact on one critical outcome: Yield. Understanding and anticipating batch performance before it's too late is immensely valuable, but has historically been challenging due to the sheer number of factors that contribute to variation in processes.

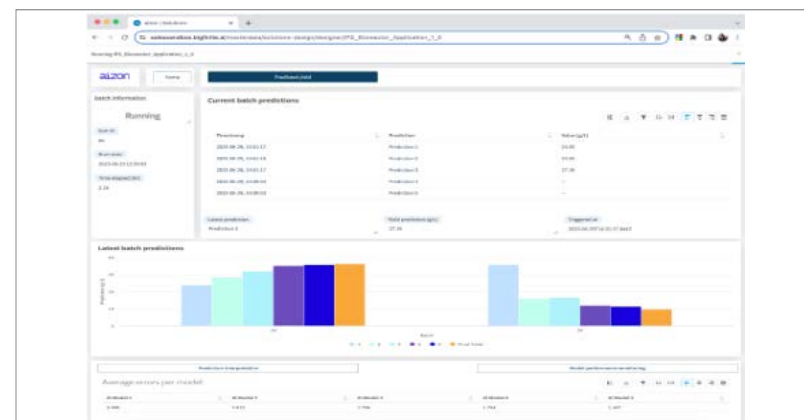
Aizon's Yield Optimization Solution provides predictive recommendations on how to optimize processes, within approved ranges of the control strategy, by leveraging AI models applied to real-time behavior. Built on a platform designed to deploy and monitor AI models in a GxP compliant environment, this solution quantifies the causal relationship between a wide range of factors that could cause variance, and gives manufacturers the ability to take action before a batch is complete.

## Key Features and Benefits

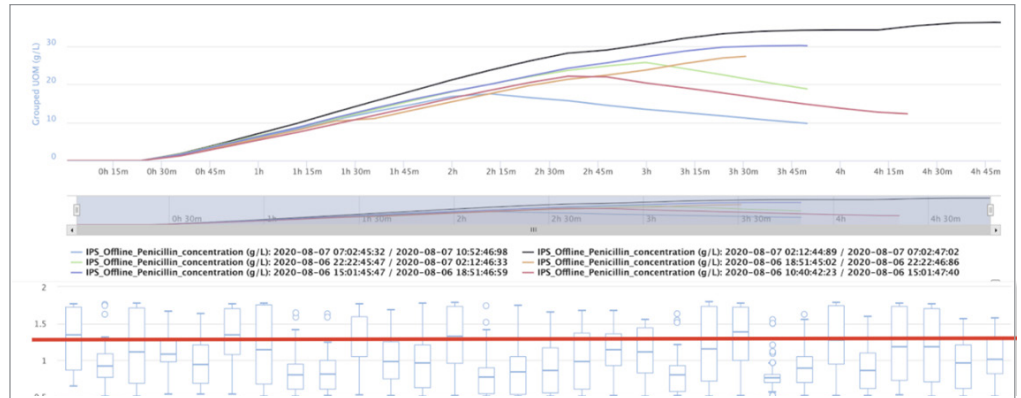
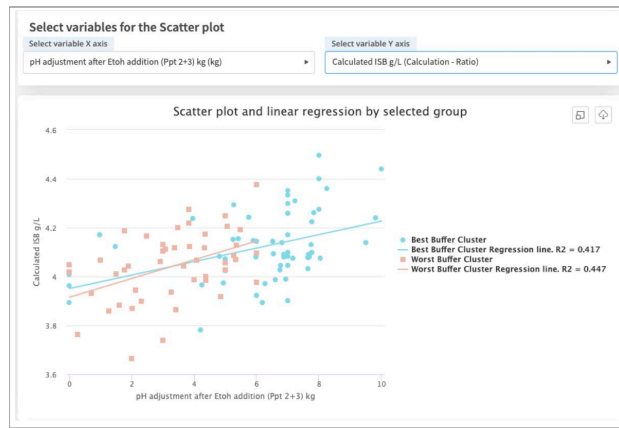
**Monitor** batch performance in real time, and leverage predictive models to anticipate poor yield in time to improve yield or save your batch.



**Leverage** AI to detect anomalies early and prevent issues, defects, Out-of-Specification and Out-of-Trend events.



**Batch** comparison tools and model performance monitoring provide a self learning solution to promote continuous improvement and expand the ‘best demonstrated performance’ to aim for in the next batch.



**With Aizon’s Yield Optimization solution** Life Sciences manufacturers can optimize processes to increase output and revenue while ensuring quality. Analyzing batch performance against profiles of Golden Batches, and predicting outcomes with AI models enables improvement on even the best performing batches. With Aizon Yield Optimization and batch performance predictions, manufacturers can increase yield and revenue while decreasing costs by optimizing materials consumption and capacity utilization.

## Aizon’s Platform

Aizon’s solutions enable life sciences manufacturers to improve decision making and outcomes by aggregating data and deploying compliant AI across the manufacturing ecosystem.

## GxP Compliance

The platform allows you to maintain full GxP compliance via robust security features and data validation processes that are specifically designed to adhere to dynamic pharmaceutical regulatory requirements. Aizon complies with industry standards to provide GxP compliance you can trust:

- Quality: ISO 9001
- Information Security: ISO 27001
- Cloud Security: ISO 27017
- All data collection performed in accordance with ALCOA+ principles