Bond Pet Foods Saves Time and Money in Their Media Optimization Process with the Cell Growth Quantifier (CGQ)

Challenges of Manual OD Sampling

Bond Pet Foods wanted to optimize their media for the best yield while saving resources to lower production costs. Their current method of manual optical density (OD) sampling led to:

- **Low-resolution data**
- **Time-consuming**
- **Invasive sampling methods**
- **Increased risk of contamination**
- **Increase in human error**

The Solution
Cell Growth Quantifier (CGQ)

There were several key benefits that Bond Pet Foods recognized in sbi's Cell Growth Quantifier over manual sampling when considering solutions.

- **Non-invasive sampling method**
- **Reduced risk of contamination**
- **High resolution growth curves**
- **Run multiple flasks in parallel**
- **Save time**

The Big Picture

After analyzing the savings in both time and resources seen when switching from manual to automatic sampling during the nitrogen-optimization experiment, the following annual savings can be realized for Bond Pet Foods (assuming one production run per week).

$28,860
In Labor Costs per Year

962 hrs
Saved per Year

$43,680
Saved on Nitrogen-Based Cost of Goods per Year

Return On Investment: 9 Months

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