

Applications

Micro-Algae Cultivation

Fast, precise analysis of cell concentration, morphology, & contamination for optimized growth

**Cell
Concentration**

**Cell
Morphology**

**Contaminant
Detection**

**Aggregation
Detection**

Process-Relevant Insights

Optimizing micro-algae cultivation requires precise monitoring of cell concentration, morphology, and contamination to maximize growth and productivity.

- + Accurately track biomass concentration
- + Detect morphological changes linked to health
- + Identify contaminants that can reduce yield
- + Monitor aggregation that impacts process efficiency

What You See - And What It Means

In just 2 minutes, the ParticleTech Analyzer captures detailed images to reveal cell concentration, morphology, unwanted aggregation and contaminant presence. This allows you to monitor algae health and growth dynamics and make informed decisions to optimize productivity.

What You Gain

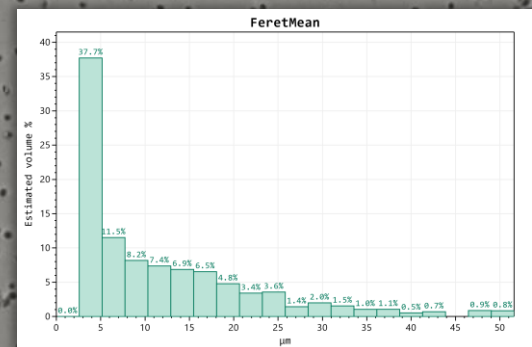
- ✓ Real-time insights into biomass growth and health
- ✓ Detection of contaminants & unwanted aggregates
- ✓ Improved process control for higher yields
- ✓ Faster optimization of cultivation conditions

Read more at

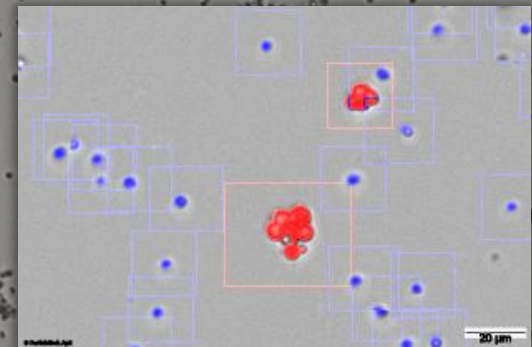
particletech.dk/particletechanalyzer

U.S. Patent No. 12,281,973

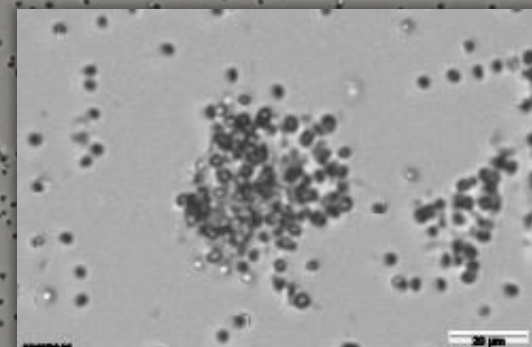
U.S. Patent No. 12,591,962



Algae Size Distribution



Distinguish Algae Types



Aggregate Detection