

Food-Grade Microalgae Cultivation Suite

This is a state-of-the-art Food-grade microalgae cultivation facility for the cultivation of microalgae, diatoms, and cyanobacteria at different scales starting from 1 L to 3300 L culture volume.

This is the indoor facility with a control growth environment including the control of temperature, pH, LED light intensity and quality, light/dark cycle, air, and CO₂ concentrations for photosynthetic organisms.

This facility also consists of two custom-designed 100 L photobioreactors with LED lighting technology for the enhancement of microalgal pigment production.

This facility uses flocculation, continuous-flow centrifugation, and filtration methods for biomass harvesting.

Examples of uses:

- R&D development
- large-scale microalgal biomass production

