

Discover the world of microalgae with IKA

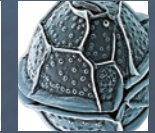
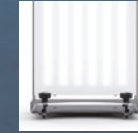
IKA's new fully autonomous photo bioreactor Algaemaster 10 control is the perfect equipment supporting the scientist to find and re-create the ideal environmental conditions for growing phototrophic organisms such as microalgae.

Microalgae are naturally designed to resist several environmental aggressions. They produce for example several metabolites to protect themselves from outer menaces. Cosmetologists have long exploited these benefits in cosmetic formulations. The fully jacketed 10 l system is ocean water resistant and its lid and vessel are completely autoclavable ensuring sterility. To minimize unintended reactions from metal or plastic parts that might release stray molecules into the water samples, the machine uses entirely "inert" materials like borosilicate glass, PTFE and Ultem® thermoplastic. Lighting, temperature, stirring, pH and dosing of liquid or gas are individually controlled via several interfaces.

The Algaemaster 10 control enables researchers to grow algae in larger quantities, under better controlled conditions and faster than previous methods allowed. The production rate of the photo bioreactor has proven to be much higher than normal static growth.

IKA

analytical equipment
designed for scientists



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