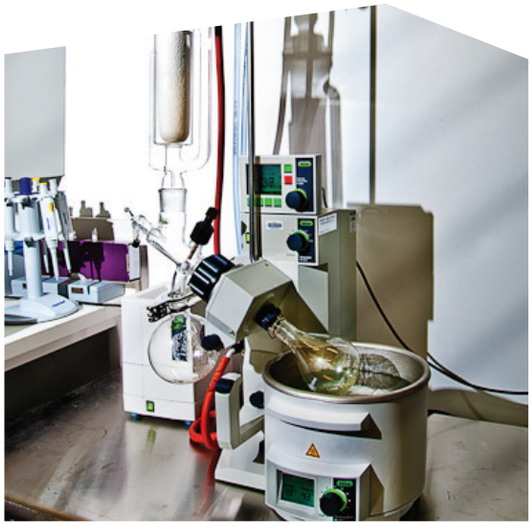
Algae and Biofuels Facility

The Algae and Biofuels Facility (ABF), hosted by the South Australian Research and Development Institute (SARDI), provides infrastructure and expertise supporting research into microalgae and macroalgae (seaweeds) strain optimisation, mass cultivation, biomass production and bioprocessing of biomass for various end use applications.

In addition to analytical services, the Algae and Biofuels Facility provides working space for visiting researchers and undertakes operation of the various analytical and production equipment tailored to client needs. The facility offers customised solutions to client research needs from laboratory to commercial scale algal production systems.

The Algae and Biofuels Facility comprises an algal physiology laboratory, pure culture and isolation laboratory, chromatography laboratory, extraction laboratory and processing laboratory. The laboratories of the facility are housed next to its test bed outdoor raceway and photobioreactors facilities to provide rapid analysis of experimental results. ABF's pilot-scale production facilities are equipped with on-line analytical capability and process control. The adjacent laboratories of the facility can also be used for visualisation, enumeration, physiological investigations, wet chemistry and instrumental chemistry.



This state of the art analytical and algal biomass production facility is supported by funding from the National Collaborative Research Infrastructure Strategy (NCRIS) and the Education Innovation Funds (EIF) under the Super Science Initiative and is hosted by SARDI at its Aquatic Sciences division near Adelaide, at West Beach, South Australia. The services provided by this facility are available to researchers from public sector institutions, universities and industry on a fee for service basis.

Detailed information on the services provided by this facility are available at:
www.sardi.sa.gov.au

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SARDI
South Australian Research and Development Institute

NCRIS
National Research Infrastructure for Australia
An Australian Government Initiative

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