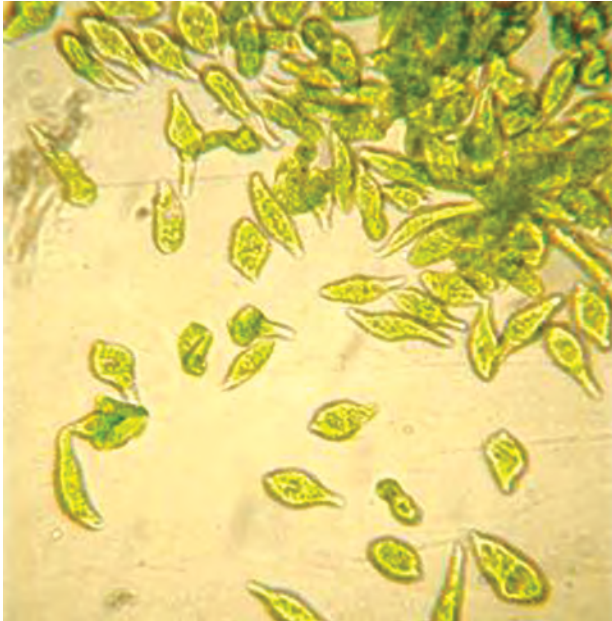


## TECHNOLOGY FOR PRODUCTION OF BIOACTIVE COMPOUNDS FROM *EUGLENA GRACILIS* MICROALGA BIOMASS



*Euglena gracilis* microalga cells



*Euglena gracilis* microalga biomass

### Areas of Application

Use of microalgal biomass for dietary supplements production; production of liposoluble vitamins for medicine, veterinary medicine, and cosmetology; production of paramylon for prevention and treatment of cardio-vascular diseases and cancer; use of microalgal biomass in aquaculture and fodder production

### Specification

Two- or three-stage cultivation is used for varying content and composition of bioactive compounds, which enables to accumulate microalgal cellular mass at the first stage and to reach desired modifications of biochemical composition at the next stages. The technology involves biomass production and its further processing for tocopherol or paramylon extraction

### Advantages

There are no absolute counterparts. *E. gracilis* has a high growth rate and is able to accumulate bioactive compounds in large amounts. Efficient and simple cultivation in artificial conditions excludes dependence of production on seasonal influences. Other advantages are the availability of main substrates for cultivation as well as waste-free and environment friendly production

Stage of Development.  
Suggestions for Commercialization

IRL3, TRL3  
Technology transfer under the agreement

IPR Protection

IPR1, IPR2

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