

Microalgae

Production of beta-carotene by microalgae



Photo: Belchonock/istock



Embrapa
Agroenergy

Production of beta-carotene by microalgae

Raw material

Process

End product

Microalgae *Dunaliella* sp.

Algal culture

Beta-carotene

Halophilic microalgae strain of the genus *Dunaliella*, isolated from Brazilian marine coastal waters, hyperproducer of beta-carotene in saline medium.

Applications

- + Production of natural carotene pigments.
- + Food, cosmetics and personal care industry.

Advantages

- + Natural alternative to synthetic pigments used in industry.
- + Native strain.
- + Cultivated in high concentrations of sodium chloride, which limits the growth of contaminants.

Stage ► TRL/MRL 3 - Lab scale

Take this technology to another stage



Research with us for other potential uses



Make this technology the basis of your incubated company

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