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(54) Title: ALGAL CULTURE PRODUCTION, HARVESTING, AND PROCESSING

(57) Abstract: Materials and methods are provided for growing algae while maintaining culture selectivity. Algae that can be grown include, for example, green algae such as those of the genus *Scenedesmus*. Lipid obtained from the algae can be used to produce biofuels such as biodiesel or polyunsaturated fatty acids such as omega-3 fatty acids. Feedstocks such as animal feed and aquaculture feed can also be produced as can phytonutrients such as *asataxanthin* and *beta-carotene*.

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