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(54) Title: METHODS FOR OVERPRODUCING PROTOPORPHYRIN IX IN ALGAE AND COMPOSITIONS THEREFROM

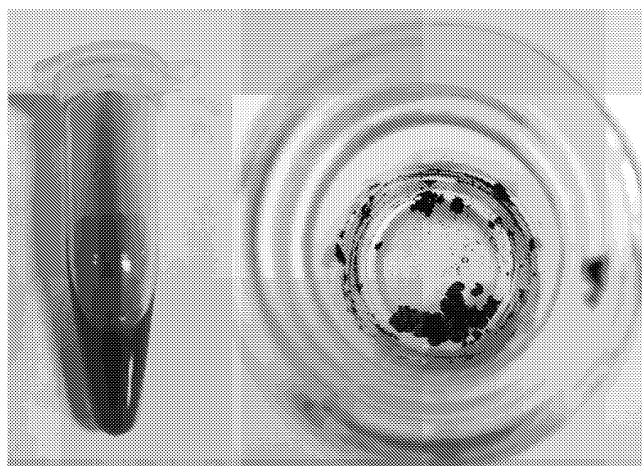


FIG. 2

(57) Abstract: Provided herein are compositions and processes for producing compositions from an algae that overproduces protoporphyrin IX (PPIX). Also provided are methods of growing PPIX overproducing algae, methods of isolating PPIX-containing portions from algae cultures and compositions and methods of making food products with PPIX produced by algae. Provided herein are strains and methods to select strains that overproduce PPIX. Also provided are compositions, including edible compositions that include PPIX produced from algae. Specifically, the algal strain over-producing PPIX is an engineered strain of The algal biomass may be used for preparing meat analogues wherein the PPIX compound imparts a meat-like colour and flavour.

[Continued on next page]



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