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(54) Title: IMPROVED EDIBLE COMPOSITIONS COMPRISING AN IMPROVED *CHLAMYDOMONAS REINHARDTII* COM-
PONENT

(57) Abstract: The subject invention pertains to a composition for humans or animals that provides effective amounts of algal protein for nutrition or functionality, or algal pigment for functionality, without concurrently adding algal starch that leads to increasing the composition's glycemic index or unwanted calories. The invention provides for a foodstuff comprising wholemeal biomass of *Chlamydomonas reinhardtii* that is higher in protein and substantially starchless. This provides for flexibility in food compositions, ingredient proportions, and algal inclusion rates to attain a flavor, texture, shape, viscosity, rheology, color, ingredient substitutions, enhanced palatability, or other desirable attribute in uncooked or cooked products. The invention provides a process for producing an edible product comprising the *C. reinhardtii* component.



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