

A proposed invention relates to methods for obtaining jellifying, thickening, glueing substances of red sea algae, for example for obtaining carrageenans from the red alga *Phyllophora nervosa*. A method for obtaining jellifying and sizing substances from the algae includes washing the algae, treating thereof with an alkali solution, washing with water and acid solution, extracting, filtering and drying the extracts. The wash water after the alkali treatment is used for washing the algae, then it is cleaned from suspended particles and is used as an extracting agent for isolating the sizing substances from the alga residue obtained after extracting the jellifying substances.