

## عنوان مقاله:

Optimal conditions for tissue growth and branch induction of *Gracilariopsis persica*

## محل انتشار:

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## خلاصه مقاله:

The species *Gracilariopsis persica* was first described by Bellorin et al. (۲۰۰۸). *G. persica* grows from late September to July and shows high growth rate from January to May in the Persian Gulf. Tissue growth and branch induction of red seaweed, *Gracilariopsis persica* from the Persian Gulf investigated under various culture levels of temperature, light intensity, photoperiod, salinity, initial length, propagule density and chemical preservatives. Optimal size of propagules used as seed was ۲ cm and faster growth of tissue and branch induction obtained at lower density. The apical part of the *G. persica* showed as the starting point of growth. The *G. persica* showed optimal growth in PES medium at ۲۴°C, ۶۰ μmol m<sup>-۲</sup> s<sup>-۱</sup> light intensity, ۱۲L: ۱۲D and salinity of ۳۹‰. But maximum branch production occurred under condition of ۲۴°C, ۲۰ μmol m<sup>-۲</sup> s<sup>-۱</sup> light intensity, photoperiod of ۱۶L: ۸D and salinity ۳۹‰. Addition of chemical preservatives of p-hydroxybenzoic acid and potassium sorbate in culture medium showed marginal suppression on tissue growth and branch induction, that suitable for preparation of semi-axenic culture condition.

## کلمات کلیدی:

Branch induction, *Gracilariopsis persica*, Preservative, Red seaweed, Tissue culture, Persian Gulf

## لینک ثابت مقاله در پایگاه سیویلیکا:

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