

京都府阿蘇海における褐藻ミヤベモク *Sargassum miyabei* の生長と栄養繁殖におよぼす塩分の影響

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**Effects of salinity on growth and vegetative propagation of *Sargassum miyabei* in Aso Lagoon, Kyoto Prefecture**

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The growth and vegetative propagation of *Sargassum miyabei* were examined at four salinities (3, 7, 15 and 30 psu) in outdoor tanks. The plant was collected in Aso Lagoon, Kyoto Prefecture. The optimum salinity for plants growth was 15 and 30 psu. On the other hand, the inhibition of the growth was observed at 3 and 7 psu. Additionally, the number of newly formed stem from old stem was observed at 15 and 30 psu, but there was no difference in both temperatures. The number of newly formed stem from filamentous holdfast was almost the same at 7, 15 and 30 psu. In contrast, the number of newly formed stem from filamentous holdfast was inhibited at 3 psu. The growth of stem from filamentous holdfast was inhibited at 3 and 7 psu. Overall, the growth and vegetative propagation of *S. miyabei* was inhibited at 3 and 7 psu. So, this finding suggests that the *S. miyabei* in Aso Lagoon was high resistant plant for low salinity condition.

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