## Exterminating Sunquphitae namhaensis using carbon dioxide in seawater for culturing brown algae Sargassum horneri seedings

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The amphipod *Sunamphitoe namhaensis* grazes on seedlings of *Sargassum horneri* in culture. To exterminate *S. namhaensis*, we immersed them in seawater with dissolved carbon dioxide—a treatment used previously to remove copepods in cultures of abalone and sea cucumber. Experiments were conducted under different CO<sub>2</sub> (aq) concentrations and for different lengths of time. Amphipod mortality was 100% following immersion in CO<sub>2</sub> seawater with a CO<sub>2</sub> (aq) concentration of 26,262 µmol/kg (pH 5.0) for 60 min. When algal seedlings were immersed in CO<sub>2</sub> seawater under these same conditions, their survival rate and growth were not affected. (京都府農林水産技術センター海洋センター業績 No.190)