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Title: Development of an innovative ring-shaped cultivation system for a land-based cultivation of marine macroalgae

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Highlights

An innovative, closed, ring-shaped cultivation vessel was developed by simplifying tumble movement to a circular motion pattern.

New cultivation vessel combines adaptability and manageability with growth rates similar or better than standard tank cultivation.

New cultivation vessel distinctly reduces variable cost, facilitates control of the cultivation process and eliminates interferences with the environment.

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