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Carbon fixation rate in farmed macroalgae — Method for sampling and analysis

Taux de fixation du carbone dans les macroalgues d'élevage — Méthode d'échantillonnage et d'analyse

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Foreword

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Introduction

With the increasing global climate crisis, the “low-carbon revolution” of globalization is rising. As a result, “carbon peaking” and “carbon neutrality” have become important goals of global low-carbon development. Countries all over the world are actively carrying out “double carbon” research to achieve the goal of “carbon neutrality” as soon as possible.

As an important organism that participates in the ocean carbon cycle, macroalgae can absorb carbon dioxide through photosynthesis, and then convert the inorganic carbon in seawater to organic carbon. Large amounts of carbon can be fixed through macroalgae harvesting. Thus, the analysis method of carbon fixation rate in farmed macroalgae will provide a technical basis for carbon peaking and carbon neutrality measurement.

This document is relevant for all stakeholders within the farmed macroalgae sector, including but not limited to, enterprises, government departments, the third party of testing or evaluation institutions.