BASIC KNOWLEDGE IN MARINE SCIENCES

Edited by
Normawaty Mohammd-Noor

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Introduction

There are many different types of media that have established to culture microalgae. The choice of media depends on species that going to be cultivated. Some media is enriched with other substances such as soil extract to enhance the growth of the microalgae.

In preparing media for marine microalgae, the seawater used must be clean. Therefore to avoid collecting polluted seawater, offshore seawater can be an option. All apparatus such as flasks, blue-cap bottles and pipettes used need to be sterilized. Stock media that have been prepared have to be kept in the refrigerator. Label clearly the date and the name of the stock media. In this chapter several recipes of media that are commonly used are listed.

A. BBM (Bold Basal Media)

1. Stock

\[
\begin{align*}
\text{NaNO}_3 & \quad 10.0 \text{ g} \\
\text{MgSO}_4.7\text{H}_2\text{O} & \quad 3.0 \text{ g} \\
\text{K}_2\text{HPO}_4 & \quad 4.0 \text{ g} \\
\text{KH}_2\text{PO}_4 & \quad 6.0 \text{ g} \\
\text{CaCl}_2 & \quad 1.0 \text{ g} \\
\text{NaCl} & \quad 1.0 \text{ g}
\end{align*}
\]

Each stock is dissolved with 400 ml distilled water separately.