

JAPAN

GELCULTURE

INFO SHEET

An indispensable silicic acid nutrient for diatom production as a continuous supplying-base material (Patent pending)

Water Containing Silicic Acid Gel

GELCULTURE

Sodium Silicate Solution (Water glass) and Sodium Metasilicate Nonahydrate have been commonly used for diatom production as an effective nutrient. However, dissolution of these alkaline silicic salts is a time-consuming work, and sometimes leads to problems, such as extraction of precipitation and change of medium pH. In addition, it is difficult to keep a high concentration of silicic acid in the medium, because diatoms readily absorb it with their population growth. So far, no method for the continuous supply of silicic acid into the culture medium has been developed.



FIG. 1 GELCULTURE

Packaging : 1 kg / bottle

Gelculture usage will ensure successful production of diatoms.

Properties of Gelculture :

Components : Silicic acid 20%, water 80%

pH : Neutral

Characteristics of Gelculture :

1. Can be used for the steady long term release of silicic acid to your large scale culture vessels.
2. Help maintain a high efficiency for diatom culture by keeping a high concentration of silicic acid.
3. Continuously releases silicic acid to your culture vessels.
4. Completely dissolves when it finishes releasing silicic acid. The half used material can be re-used.

Direction for use :

1. Pack the appropriate amount of Gelculture into a nylon mesh bag.
2. Tie it around the aerator pipe or hang it on the air pipe for use.
3. For small scale cultivation, Gelculture can be added directly into the vessel.

Example :

Add 1 liter of algal culture medium KW21 and 350g of Gelculture in a net bag to 1000kL of filtered seawater. Place Gelculture in the flow of water.

Table 1. Reference data: Standard concentration of both use of GELCULTURE and algal culture medium KW21

Algae	GELCULTURE *	Algal culture medium KW21**
	Suitable amount for seawater (1L)	Suitable amount for seawater (1L)
Floating diatoms	0.1 g – 5.0 g (Recommended amount 0.2g - 0.5g)	0.5 mL – 1.0 mL
Attaching diatoms	0.01 g – 5.0 g	0.05 mL – 0.1 mL

*The more use of GELCULTURE, the better cultivation efficiency

Caution for use

- The amount of the released silicic acid depends on the contact amount with water. It also depends on the temperature of the contact water. For these reasons, the most suitable concentration will be depended on the way/conditions of use.
- For reuse, GELCULTURE should be rinsed with water and then be kept in an airtight container in a cool and dark place.



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