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Algal nutrient products. Directions for use

There are three formulations for the all in one powder, and three for the concentrated liquid

All-in-one powder

Once the pack of Cell-hi has been opened store any that is unused in a sealed container as it is hygroscopic. Once opened, store in a refrigerator to extend the life of the vitamins. Kept in a refrigerator the life of the product will be approximately 6 months once opened. If kept in a cool dark place use within 2 months once opened.

For direct use, dissolve the Cell-hi powder in sterile culture water with the appropriate salinity desired for the species and purpose of use. Once dissolved adjust the pH to the desired level.

Alternatively, to prepare a concentrated liquid stock solution, add 1 kg of **Cell-hi F2P** to 10L of sterile distilled water, agitate to dissolve formulation. For long term use, store nutrient solution in a cool dark room or cupboard. If some components dissolve incompletely the addition of small quantities of concentrated HCl will assist dissipation.

Follow the same procedure for the preparation of **Cell-hi W** however, 1.5 kgs of formulation should be added to 10L of sterile distilled water.

For typical batch production of algal species use the prepared stock solutions at a rate of 1ml per litre of culture.

Cell-hi F2P based on the Guillard F/2 medium and has exactly the same N, P trace element and vitamin content. Most people in aquaculture use this - **1 kg makes 10,000 litres culture medium at F/2 strength**

Cell-hi WP based on the Walnes medium and has exactly the same N, P trace element and vitamin content. Walnes is recommended by the UK Culture Collection for algae and protozoa. It is particularly good for flagellate algae such as Isochrysis and Tetraselmis - **1.5 kg makes 10,000 litres culture medium at Walnes strength**

For diatoms just add 30 grams of sodium metasilicate for each 1000 litres of culture water after adding the **Cell-hi**.