



Nano Chito

Nano Chito is a product that was extracted from the shells of crustacean species such as shrimp, crabs and lobster. It has the ability to chelate minerals and other nutrients to make them easily available for plant uptake. This product is used for aquaculture and agricultural applications.

Composition/Technical Specifications

Components	Composition (%) w/w
Acetic Acid	1.60
Chitosan	0.40
Sodium tripolyphosphate	0.20

Dosage & Methods of Application

As Natural Fungicide

- Seed Soaking: Dilute 2.4ml of Nano Chito in 2 litres of water and coat every 1 kg of vegetable seeds
- Seed Dressing: 75-150ml diluted with 10 L water for 100kg for field seed
- Root Dipping: Diluted 10 - 20 ml of Nano Chito in 1 litre of water and dip the roots prior to planting

As Foliar Fertilizer

- Preventive: Use 1 litre of Nano Chito per acre and apply every 1-2 rounds with one week gap between sprays
- Curative: Use 1.5 litre of Nano Chito per acre and apply every 2-3 rounds with one week gap between sprays

Postharvest of Fruits and Vegetables

Use 0.5 - 1 litre of Nano Chito and dilute in 1 - 2 litres of water and spray the solution in a 100kg of fruits and vegetables. If soaking is preferred dilute the product in the same ration and soak for 45 minutes.

In Aquaculture

Use 1 litre per acre in pond water.

Benefits in Aquaculture

- possess antibacterial and antioxidant properties in marine culture
- increase the survival rate, growth performance and meat quality of brackish water pond species
- significantly improved in weight of cultured fish in the brackish water ponds
- prevent the outbreak of fish and shrimp diseases
- reduce and eliminate pest's population found in the brackish water pond

Benefits in Agriculture

- exhibits antifungal activity against *Alternaria alternata*, *Rhizopus oryzae*, *Aspergillus niger*, *Phomopsis asparagus*, and *Rhizopus stolonifera*
- reduced disease incidence caused fungus and bacterial pathogen
- plant growth promoter and improve the development and quality of flowers and fruit
- improve preservation maintain the quality of fruit and vegetable during postharvest storage
- accelerates seed germination and rapid plant development