

# Bio-fertilizer from cyanobacteria



## Description

This invention is related to a bio-fertilizer substrate obtained from cyanobacteria that provides the optimum proportions of carbon-nitrogen to support primary production.

## Application

The production of this substrate is environmentally friendly in two senses: a) cyanobacteria use CO<sub>2</sub> from the atmosphere, contributing to carbon capture and b) its manufacture does not require the use of ammonia, since all the nitrogen in the biomass is a product of biological fixation of atmospheric nitrogen by cyanobacteria themselves.

The bio-fertilizer from cyanobacteria provides the optimum proportions of carbon-nitrogen to support primary production. It has been successfully tested for the hydroponic production of vegetables, for which the product is directly used in the liquid medium in which they grow therefore it is not necessary to add more nutrients. However, its use in

activities such as floriculture is recommended to avoid the risk that certain cyano-toxins are available to the human consumption.

## Stage of Development

Experimental

## IP Status

Patent application No. MX/a/2012/013226

## Inventors:

Dra. Luisa I. Falcón Álvarez  
Dra. Valeria Souza  
(Instituto de Ecología)

Agro-  
industry

## Market potential

The Sectoral Agricultural Program, through its Sustainability of Natural Resources component, fosters the production and use of bio-fertilizers through grants that can reach 20 mdp.

## Transferring conditions

- ✓ Technological development agreement (optional)
- ✓ Licensing (includes front payment and royalties)



Contacto UNAM:

UNAM Contact:

César León  
cesar.leon@unam.mx  
+52 (55) 56 58 56 50  
Ext. 208

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