



[linkedin.com/in/ott-uai/](https://www.linkedin.com/in/ott-uai/)



portafolio@uai.cl



Av. Diag. Las Torres 2640, 7941169
Santiago, Peñalolén, Región Metropolitana



TRL

RICH FERTILIZE IN SIDEROPHORE

Description

Iron deficiency in crop soil is a widespread issue that impacts plant metabolism and chlorophyll synthesis, leading to premature leaf drop and smaller fruits.

This problem arises from soil conditions such as porosity and a pH level above 7, with the main symptom being leaf yellowing. While solutions exist in the market, they are expensive and difficult to implement on a large scale.

However, this fertilizer utilizes *Pseudomonas* sp. ABC1, capable of producing pyoverdine siderophores on a larger scale. This vegetative promoting bacteria effectively addresses iron chlorosis in a cost-effective and environmentally friendly manner.

Applications

- Irrigation water
- Crops
- Fertilizer

Advantages

- Cost-effective process
- High metabolites production, even in adverse conditions
- Eco-friendly

Intellectual Property Status

- Not granted

Research Team

- [José Luis Campos Gomez. https://pure.uai.cl/es/persons/josé-luis-campos](https://pure.uai.cl/es/persons/josé-luis-campos)