

## Acidithiobacillus ferrooxidans powder

Cat. No. PRBT-136

Lot. No. (See product label)

## Introduction

**Description** Acidithiobacillus ferrooxidans is a Gram-negative extremophile acidophile belonging to the phylum Pseudomonadota. It is a chemolithoautotrophic microorganism capable of oxidizing ferrous iron (Fe<sup>2+</sup>) to ferric iron (Fe<sup>3+</sup>) and reducing sulfur compounds to sulfuric acid, thereby obtaining energy. Therefore, Acidithiobacillus ferrooxidans can be used as a biofertilizer to dissolve iron in the soil and enhance nutrient availability, which is crucial for plants in iron-deficient soils. In addition, it has shown potential in environmental remediation and wastewater treatment.

## **Product Information**

Form	Powder
Activity	$1 \times 10^8$ CFU/g or $1 \times 10^9$ CFU/g