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# **Phosphate Solubilizing Microorganism Principles And Application Of Microphos Technology**

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solubilizing microorganisms to enhance crop productivity in mountainous regions is examined, as are the ecological diversity and biotechnological implications of phosphate solubilizing microorganisms.

Lastly, the role of phosphate solubilizing microorganisms in aerobic rice cultivation is highlighted. This volume offers a broad

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Solubilizing

Mohammad Saghir

Khan, Almas Zaidi,

Javed Musarrat (eds.)

This book provides a

comprehensive

description of

phosphate solubilizing

microorganisms and

highlights methods for

the use of microphos in

different crop

production systems.

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Phosphate-solubilizing  
microorganisms (PSM)

including bacteria,  
fungi, and

actinomycetes dwelling  
in soil or other

environment, for  
example, rhizosphere,

do play some vital  
roles in facilitating...

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Phosphate solubilizing  
microbes (PSMs) are a  
group of beneficial  
microorganisms  
capable of hydrolyzing

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organic and inorganic insoluble phosphorus compounds to soluble P form that can easily be assimilated by plants. PSM provides an ecofriendly and economically sound approach to overcome the P scarcity and its subsequent uptake by plants.

**Phosphate  
Solubilizing  
Microorganisms:  
Promising Approach**

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Phosphate solubilizing microbes (PSB) converts organic phosphorus into inorganic form through the secretion of acids because of sugar metabolism and ultimately available to the plants. Microbes inhabiting the rhizosphere utilize sugars from root exudates and metabolize them to produce organic acids

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(Goswami et al., 2014).

Microorganisms

## **Phosphate Solubilizing Bacteria - an overview ...**

Phosphorus

(P)-solubilizing bacteria  
and fungi can increase

soil-P availability,

potentially enhancing

crop yield when P is

limiting. We studied

the effectiveness of

Bacillus FS-3 and

Aspergillus FS9 in

enhancing strawberry

(*Fragaria x ananasa*

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cv. Fern) yield and mineral content of leaves and fruits on a P-deficient calcareous Aridisol in Eastern Anatolia, Turkey.

## **Effects of phosphate-solubilizing microorganisms on**

...

Introduction Natural solubilization of mineral phosphates is an important phenomenon exhibited by different

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Solubilizing

microorganisms,  
known as phosphate  
solubilizing  
microorganisms (PSM).

Bacteria are the  
predominant  
microorganisms that  
solubilize mineral  
phosphate in nature,  
as compared to other  
microorganisms.

**Isolation and  
characterization of  
phosphate  
solubilizing ...**

A total of eleven



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## Solubilizing

phosphate solubilizing bacteria were isolated from rhizosphere soil of tomato (*Solanum lycopersicum*) plants. Isolates designated as PSB1, PSB2, PSB4, PSB5 and PSB7 were selected out of eleven isolates based on their clear zone diameters. They were characterized to generic level and found to belong to *Pseudomonas* spp .

Solubilizing  
**Isolation of  
Pseudomonas with  
the Ability to  
Solublize ...**

Thus, inoculating  
seeds/crops/soil with  
Phosphate Solubilizing  
Microorganisms (PSM)  
is a promising strategy  
to improve world food  
production without  
causing any  
environmental hazard.  
Despite their great  
significance in soil  
fertility improvement,  
phosphorus-solubilizing

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conventional chemical

fertilizers in

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[Mohammad Saghir Khan; Almas Zaidi; Javed Musarrat;] -- This book provides a comprehensive description of phosphate solubilizing microorganisms and highlights methods for the use of microphos in different crop production systems.

**Phosphate  
solubilizing  
microorganisms :  
principles and ...**

*Page 20/30*

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Microorganisms

play a role in maintaining the ecological balance by active participation in

Carbon, Nitrogen, Sulphur and

Phosphorous cycles in nature. Phosphate

Solubilizing Microbes plays an important role in plant nutrition

through increase in phosphate uptake by plants and used as biofertilizers of

agricultural crops.

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**Microorganisms  
Isolation and  
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Phosphate solubilizing fungi play a noteworthy role in increasing the bioavailability of soil phosphates for plants. The present study was aimed at isolating and characterizing phosphate solubilizing fungi from different rhizospheres using

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both solid and liquid

Pikovskaya (PVK)

medium.

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**Solubilization**

**Potential of**

**Rhizosphere Fungi**

...

Phosphate-solubilizing  
bacteria. After

nitrogen, phosphorus

(P) is the second

essential

macronutrient for plant

growth and

development.

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Generally, substantial amount of phosphorus (P) occurs in soil ranging from 400 to 1,200 mg/kg of soil, either in mineral forms, e.g., apatite, hydroxyapatite and oxyapatite, or organic forms such as, inositol phosphate (soil phytate), phosphomonoesters ...

## **Phosphate- solubilizing bacteria- assisted**



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**phytoremediation ...**

Phosphate solubilizing

bacteria (PSB) are

beneficial bacteria

capable of solubilizing

inorganic phosphorus

from insoluble

compounds. P-

solubilization ability of

rhizosphere

microorganisms is

considered to be one of

the most important

traits associated with

plant phosphate

nutrition.

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## **Phosphate solubilizing bacteria**

### **- Wikipedia**

Phosphate-solubilizing bacteria (PSB) can promote the dissolution of insoluble phosphorus (P) in soil, enhancing the availability of soluble P. Thus, their application can reduce the consumption of fertilizer and aid in sustainable agricultural development. From the rhizosphere of Chinese

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cabbage plants grown  
in Yangling, we isolated  
a strain of PSB (YL6)  
with a strong ability to  
dissolve P...

Microphos

## **Frontiers | Isolation and Characterization of a Phosphorus ...**

The use of cold-  
tolerant phosphate  
solubilizing  
microorganisms to  
enhance crop  
productivity in  
mountainous regions is  
examined, as are the

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Microbiology ...**

This study examined bioremediation of crude oil polluted soil (PS) stimulated with nitrogen-fixing bacteria (NFB) and phosphate-solubilizing bacteria (PSB). Five set-ups designated as A (500 g PS + 50 g NFB); B (500 g PS + 50 g PSB); C (500 g PS + 50 g

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NFB+PSB); D (500 g PS + 50 g NPK); and E (500 g PS only; control) were designed. Total petroleum hydrocarbons (TPHs) were monitored for 4 weeks.

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