

## Biological Fertilizer - *Penicillium bilaiae*

### SPECIFICATION

<b>Cat.No.</b>	PGPR-0003BF
<b>Product Name</b>	Biological Fertilizer - <i>Penicillium bilaiae</i>
<b>Product Format</b>	Powder
<b>Type</b>	Biological Fertilizer
<b>Application</b>	Soil conditioner
<b>Function</b>	Inhibit pathogens in soil, phosphorous dissolving and potassium fixing.
<b>Effective Microbes</b>	$\geq 1 \times 10^{10}$ CFU/g $\geq 5 \times 10^{10}$ CFU/g
<b>Solubility</b>	Water Soluble
<b>Usage</b>	Greenhouses, open field
<b>Release Type</b>	Controlled
<b>Purity</b>	100%
<b>Moisture</b>	$\leq 15\%$
<b>pH</b>	5.0-8.0
<b>Appearance</b>	Gray to Green Powder
<b>Product Description</b>	<p><i>Penicillium bilaiae</i> is a species of native soil fungus that can be used as a PGPM (plant growth-promoting microorganism).</p> <p>It has not only the function of inhibiting pathogens in soil, but also the phosphorus dissolving and potassium fixing. The organic acids excreted by the microorganism can solubilize soil-bound phosphate.</p> <p>The organism can live in symbiosis with several plant species by enhancing phosphate uptake by the root structure while feeding off plant waste products.</p> <p>Its strong soil adaptability makes it widely used in greenhouse and open-air cultivation.</p>
<b>Benefit</b>	<ol style="list-style-type: none"> <li>1. Increase the absorption of phosphorus.</li> <li>2. Give seeds protection when facing pathogens</li> </ol>

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- 3. Improve soil conditions.
- 4. Help crops defend diseases.

<b>Crop</b>	Most crops
<b>Storage Temperature</b>	Room temperature
<b>Shipping temperature</b>	Room temperature