주식회사 농 비
NONGBI Co.,Ltd.

PRODUCT BROCHURE

POONG JAK YI

SOIL MICROBIAL FERTILIZER

Starting at the roots and soil care

A soil microbial preparation designed to support the root environment and nutrient cycling through beneficial microorganisms and fermentation metabolites.



From soil life to agricultural possibility

500 mL · 1 L · 4 L

NONGBI

Microorganisms and soil Considered together

Living soil

Microorganisms break down organic matter, cycle nutrients and shape the root environment. Nongbi considers both microbial diversity and the soil conditions that support it.

Five product highlights

Fermented animal- and plant-derived materials bring together microorganisms and growth-related ingredients including amino acids and humus-like substances.

Microbial blends	Uses in-house cultures and microbial blends including Bacillus species.
Nutrient cycling	Considers decomposition, phosphate solubilization and nitrogen cycling.
Root vitality	Uses root-associated microorganisms and metabolites to support the root environment.
Soil conditions	Uses microorganisms involved in decomposition and soil aggregation.
Growth-support ingredients	Uses naturally derived auxins, animal-derived amino acids, wood vinegar, humus-like materials and macro- and micronutrients.

Microorganisms and metabolites

Group	Microorganism / material	Intended role
Bacillus group	B. subtilis	Decomposition · Root-zone conditions
Bacillus group	B. amyloliquefaciens	Root colonization · Growth-related metabolism
Bacillus group	B. megaterium / B. aryabhattai group	Phosphate solubilization · Nutrient availability
Bacillus group	B. licheniformis	Protein-degrading enzymes · Nutrient cycling
Microbial blend	Microorganisms involved in co-metabolism	Complementary microbial functions
Fermentation metabolites	Amino acids, sugars, enzymes, etc.	Microbial substrates · Nutrient-use support

Functions vary by strain and environment; they do not establish pest- or disease-control efficacy for the product.

Soil testing → Nutrition → Microbial environment → Root vitality → Crop growth

Crop nutrition and soil life considered together.

Fertilizer manufacturing registration Ulsan Nam 020-Ga-20301 · Patent 10-2236553

For each crop and growth stage

Dilution and application

Application	Dilution and use
General dilution	Young seedlings: 1,000-fold · Mature trees: 500-fold. Adjust to growth condition.
Repeat application	Repeat every 7–10 days according to crop condition.
Soil drench / foliar spray	1 L of product per 1,000 m² · General dilution: 500-fold.
Seed / planting-material soak	Rice, soybean, maize, garlic, ginger, potato and sweet potato: soak in a 100–200-fold dilution for about 30 minutes before planting.
Seedling dip	Roots only: 200-fold · Whole seedlings: 1,000-fold.

Follow the product label and manufacturer’s guidance for your crop and growth stage.

Application guide for crops

Crops	Applications during the growing period
Garlic chives · Napa cabbage · Lettuce · Water dropwort · Gondeure greens · Chwinamul greens	**2–4 applications**
Pepper · Strawberry · Cucumber · Watermelon · Korean melon · Tomato · Melon · Squash	**3–4 applications**
Persimmon · Mandarins · Apple · Pear · Grape · Fig · Japanese apricot · Blueberry · Aronia	**3–4 applications**
Green onion · Onion · Garlic · Potato · Sweet potato · Carrot · Radish · Turmeric	**1–2 applications**
Rice · Barley · Wheat · Maize · Soybean · Adzuki bean · Foxtail millet · Sorghum	**2–3 applications**
Goji berry · Sesame · Perilla · Rapeseed · Peanut · Peony · Astragalus	**2–3 applications**
Deodeok · Yam · Ginger	**2–3 applications per year**
Bamboo · Pine · Turfgrass	**3–5 applications**

General guide: 500–1,000-fold dilution at 7–10-day intervals. The deodeok / yam / ginger row is an annual count.

POONG JAK YI

Renewing resources Nurturing life

Product category

Soil microbial preparation

Labelled microorganism

Bacillus subtilis

Labelled viable count

At least 1.6 × 10^6 CFU/mL

Covered by product liability insurance

Nonghyup contract product codes (barcodes)

500 mL	880030780004
1,000 mL	880030780011
4,000 mL	880030780028

Use and storage

Shake vigorously before diluting with water. Store in a cool place. Follow the label directions for your cultivar and growing conditions.

Grower observations

Cucumber (Uiseong, Korea)

After cold injury, a 1,000-fold dilution was mixed with the existing nutrient solution and applied once a week for three weeks. The grower observed renewed root vitality and a subsequent normal harvest.

Onion · Potato (Sangju, Korea)

Reduced aphid occurrence was observed during a field trial without separate pesticide treatment.

Various crops

Growers reported improved leaf and root vitality and crop condition after drench or foliar application at 500–1,000-fold dilution.

Grower observations from Nongbi product use; individual products were not identified. These are not controlled efficacy trials. Results vary with growing conditions.



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