

Linfer s.r.o.

# $\gamma$ -PGA

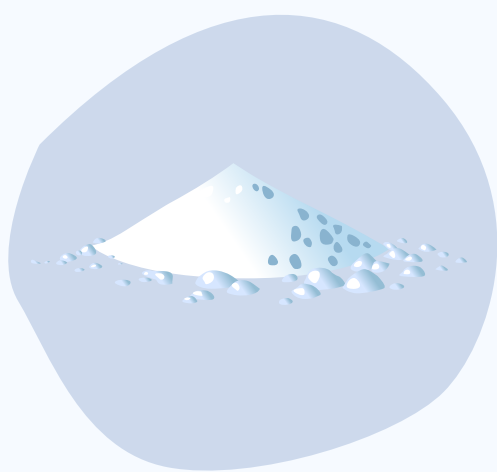
POLYGLUTAMIC ACID



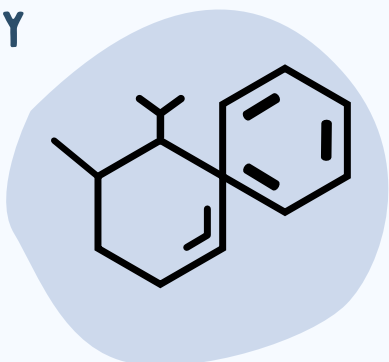
↑ 10 – 25% CROP  
↓ 20% FERTILIZER

# BIO

## STIMULANT



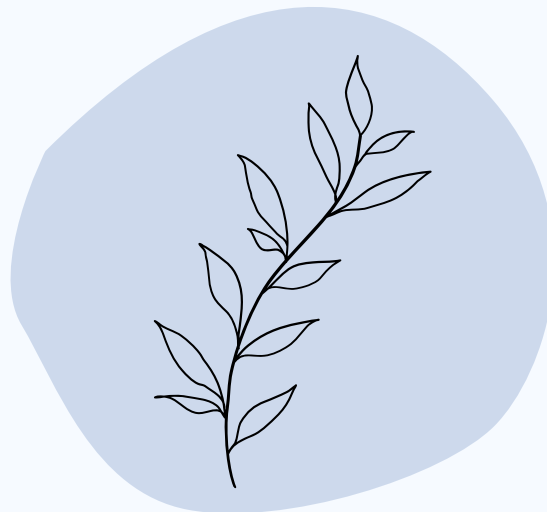
- **ACIDIC AMINO ACID PRODUCED BY MICROBIAL FERMENTATION**
- **BIODEGRADABLE, WATER-SOLUBLE, NON-TOXIC BIOPOLYMER**
- **USED IN MEDICINE, COSMETICS, FOOD**
- **THE USE IN FERTILIZERS HAS ONLY EMERGED VERY RECENTLY**



# LINFER

## INNOVATIVE FERTILIZERS

- **CAS NR.: 25513-46-6**
- **SYNONYMS: A- AMINOGLUTARIC ACID, NATTO (MUSHROOM) GUM, VEGETABLE COLLAGEN**
- **CHEMICAL FORMULA: C<sub>5</sub>H<sub>9</sub>NO<sub>4</sub>**
- **MOLECULAR WEIGHT: 147.13 G/MOL**
- **MELTING POINT: 223.5 °C**



- **STRONG WATER RETENTION, STRESS RESISTANCE AND STRONG ION ADSORPTION**



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# MAIN FUNCTIONS

## 01 WATER RETENTION

- CLAY HEAVY SOIL: BETTER BULKINESS AND POROSITY
- SANDY SOIL: HIGHER FERTILIZER AND WATER HOLDING CAPACITY



## 02 ↑ FERT. ABSORPTION

- ↑ NUTRIENT, WATER, AND ROOT HAIR INTERACTION
- LONG TERM SLOW RELEASE FUNCTION
- PARTICULARLY BENEFICIAL IN ARID AND SEMI-ARID REGIONS



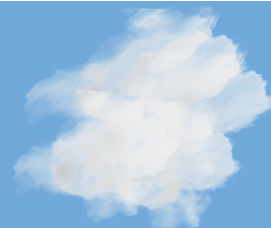
## 03 ↑ PLANT RESISTANCE

- PROMOTING EFFECT ON ROOTS → ↑ NUTRIENT ABSORPTION
- DROUGHT, FLOOD, LOW TEMPERATURE OR DISEASE → REGENERATION OF ROOT HAIRS AS WELL AS ↑ OF NEW



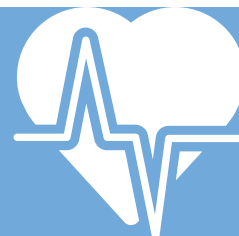
## 04 PH BALANCING

- EXCELLENT BUFFER CAPACITY FOR ACID AND ALKALI
- AVOIDANCE OF ACID SOIL AND SOIL HARDENING CAUSED BY LONG-TERM USE OF CHEMICAL FERTILIZERS



## 05 ↓ HEAVY METALS

- PREVENTS CROPS FROM ABSORBING TOXIC HEAVY METALS
- ESPECIALLY LEAD  $Pb^{+2}$ , COPPER  $Cu^{+2}$ , CADMIUM  $Cd^{+2}$ , CHROMIUM  $Cr^{+3}$ , ALUMINIUM  $Al^{+3}$ , ARSENIC  $As^{+4}$



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# BASIC NUMERIC DATA

## BENEFITS OF THE LONG TERM SLOW RELEASE FUNCTION

**4x**

Longer release time than that of traditional fertilizers

**6%**

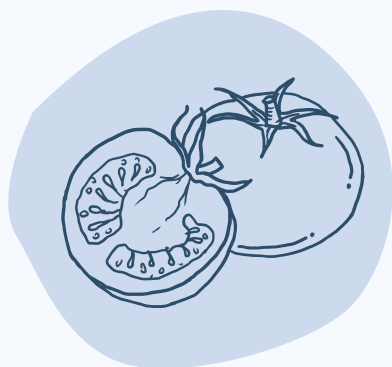
Increase of utilization rate of nitrogen (when mixed with chemical fertilizers)

**20%**

Direct reduction of the amount of fertilizer

**10-25%**

Increase in crops



## ADVISED DOSAGE γ- PGA 35%

### Dosage

Standard  
Vegetables

3x before flowering  
6x before flowering

Each application (solid fertilizer):

Per MT dosage

3kg 28% PGA powder / 1MT fertilizer

Per hectare dosage

3.5kg 28% PGA powder / hectare

Each application (liquid fertilizer; foliar spraying and drip irrigation):

Per 1000 l dosage

3 kg 35% PGA powder / 1000 l solution

Per hectare dosage

2.5 kg 35% PGA powder / hectare



*The specific dosage of polyglutamic acid can be adjusted according to crops, soil, climate and other factors.  
In case of flushing application, 38 - 75 kg of 35% PGA powder should be used per 1 hectare*



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