

GROWING-UP INTERNATIONAL CORP. (TAIWAN)  
31, 3 Alley, 75 Lane, Tai Ping Rd., Sec.2, Tsao Tuen, Nantou 54263, TAIWAN  
<http://www.growing8.com>, TEL: 886-49-2337-927, FAX: 886-49-2337-928, [growing8@growing8.com](mailto:growing8@growing8.com)

## GROWING-UP INTERNATIONAL CORP.

31, 3 Alley, 75 Lane, Tai Ping Rd., Sec. 2, Tsao Tuen, Nantou, TAIWAN.

TEL: 886-49-233-7927(main line) FAX:886-49-233-7928

<http://www.growing8.com> E-MAIL: [growing8@growing8.com](mailto:growing8@growing8.com)

### **[Instruction Manual]**

## **Link-ROOT TG** (Technical Grade)

- **Product name:** **Link-ROOT TG** [item#YM-1090906-TG]
- **Active ingredient:** Amino acid 10%, Root Hair Enzyme
- **Physical properties:** Liquid
- **Features:** Hasten rooting, increase root hair
- **Product manual:**
  1. The roots of the plants are quite sensitive to induction in the medium. “**Link-ROOT**” can act on the growing root tissue by transmitting signals to the cells. “**Link-ROOT**” stimulates the regulation of AMP-rich RNA and mRNA, and it induces endogenous hormones, activate proteins and enzymes required for growth. In addition, the differentiation of tubers, coleoptiles, hypocotyls, adventitious roots and root epidermal tissue will increase significantly.
  2. “**Link-ROOT**” induces the differentiation of root vascular bundles and the cell division of the meristem layer, which can rapidly expand the root system in the cultivation medium. Through “**Link-ROOT**”, the crops increase the absorption of micronutrients, and strengthen the cell wall structure of the roots while increasing the roots’ development. Simultaneously stabilizing the development of above-ground crop, and increasing the fresh weight and effective nutrient content of the roots. Utilization of “**Link-ROOT**” stabilizes the development of *above-ground crop*, and increases the fresh weight and effective nutrient content of the roots simultaneously. Application of “**Link-ROOT**” is able to promote growth of primary root, formation of lateral root, development of adventitious root, and number of root hairs. Furthermore, “**Link-ROOT**” greatly increases surface area of roots’ nutrient

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absorption. The effects of applying “**Link-ROOT**” to Chinese cabbage, cabbage, lettuce, sweet pepper, and other crops are proven effective through our company’s experimentation research process. However, it must be noted that the crops will need lots of fertilizers, and we have to increase fertilizers accordingly.

3. “**Link-ROOT**” can stimulate seedling growth, make stem strong, promote seed breaking dormancy, and increase production of hormones and  $\alpha$ -amylase to make cells divide and elongate. Therefore, the seedling significantly increases the fresh weight and the height. And the seedling can quickly do photosynthesis to grow into robust plants. When seedling is transplanted, the root is vulnerable to mechanical damage or can’t adapt to new medium immediately. By using “**Link-ROOT**”, the root system is able to be rapidly expanded, improve the wound to be repaired and the new adventitious roots and root hairs can be inserted into the new medium to absorb water and nutrients. Therefore, applying “**Link-ROOT**” may improve the survival rate of seedling transplantation.

- **Instruction Manual:**

1. Applicable crop: All
2. Used for watering or foliar spraying.
3. Dilution factor can be adjusted according to individual tests.
4. The amino acid can be generally mixed (with higher nitrogen) or by a chemical composition containing higher nitrogen.

Period	Part to act on	Dilution Factor
Seedling stage	foliar	10000x
Young fruit stage	fruit	7500x
Fruit growth period	fruit	7500x

5. Liquid fertilizer is made by adding 20% of the stock solution to the fertilizer, i.e., it is made into liquid fertilizer. The solid fertilizer can be mixed with 20% of the stock solution evenly outside of the solid fertilizer using a duster.

Types of Crops	Dilution Factor	
	Seedling stage	General stage
Cereal	1200-2400x	2000x
Melon	2000-2400x	2000x

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Vegetable	2400-3000x	2000x
Fruit	1200-1500x	2000x
Gardening	1200-1500x	2000x

- **Precautions:**

1. This product may be used with other fertilizers and pesticides, but avoid mixing with bacterial fungicides.
2. Please apply as soon as possible after opening. Store and seal in a dry and cool place.
3. Pay attention to supplement a lot of fertilizers and amino acid fertilizers to avoid nutrient deficiency caused by rapid growth.