



**Kitor****Rx**

***Plant Growth Enhancer & Natural Plant Defense Booster***



# ***Kito-R<sub>x</sub> 3-4-3***

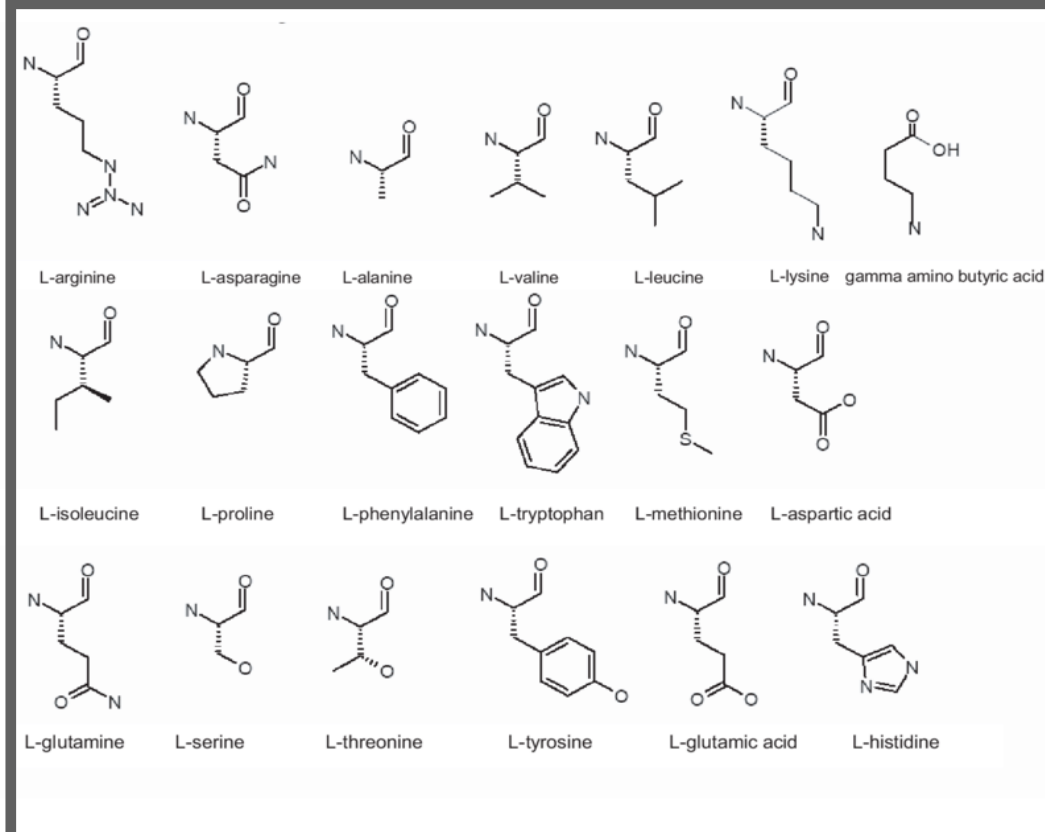
## *Plant Growth Enhancer & Natural Plant Defense Booster*

*Kito-R<sub>x</sub> is a Plant Growth and Defense booster made from organic plant-based L-Amino Acids that feed the plant and soil. A key component, Chitosan, boosts a plants' natural defenses against biotic and abiotic stress. This cutting-edge formula combines the benefits of amino acids, fulvic acid, proteins, enzymes, vitamins, sugars, Chitosan, and other proprietary compounds, to enhance a plant's immunity to challenging stresses, such as drought, pest pressure, disease, and so much more.*

*Its highly bioavailable formula acts as a chelator, increasing uptake efficiency and boosting a fertilizer's plant-available nutrients, making **Kito-R<sub>x</sub>** an excellent addition to any conventional, sustainable, or organic program.*



*The raw ingredients used in Kito-R<sub>x</sub> have undergone an enzymatic hydrolysis process, giving it outstanding water solubility, high biological activity, and increased absorption by crops' foliar and root zones.*



*L-Amino Acids are the building blocks plants use to build the proteins they need to grow. Amino Acids also play an essential role in many plant functions such as cell wall strength, fruit quality, pollination, pollen fertility, hormone synthesis, formation of vegetative tissue, chlorophyll synthesis, stomatal regulation, chelation, to name a few.*



Crustacean shells



Chitin



Chitosan

*Chitosan enhances the ability of plants to survive in times of biotic and abiotic stress. It can give plants the ability to grow with less water, accelerate growth and germination, and improve the quality of flowers and fruit. Also, it turns on the plant's natural defenses against fungal and bacterial infections, heat, cold stress, helping the plant be less affected and recover quicker from physical damage caused by, for example, hail, storms, or drought. This natural plant inducer is sometimes known as a "sugar chain plant vaccine" due to its activity on the plant's Systemic Acquired Resistance (SAR). SAR is a plant defense response that provides long-lasting, broad-spectrum pathogen resistance. Its mission is to activate plants' immunity ability to disease and stress. And it's suitable for all crops, especially tomato, pepper, tobacco, cannabis, and turfgrass.*



*Here are several mechanisms of action for Kito-R<sub>x</sub>:*

- ***Plant Resistance Activation***

*Works by triggering various physiological responses in plants, establishing a natural immunity. Plant resistance can help reduce pesticide use.*

- ***Stimulates germination***

*Seed coating (Priming) or soaking can change the permeability of the outer membrane of the seed, increase the concentration of sugars and amino acids, and increase enzyme activity. It makes seedlings thrive, especially helpful in cold early spring.*

- ***Natural nematicide***

*Increases the number of helpful soil microorganisms and decreases harmful ones. Application of this fertilizer in the soil can control nematodes. It inhibits the breeding of nematodes by inducing the breakdown of chitin that destroys the epidermis of nematodes and their eggs.*



***Without Kito-R<sub>x</sub> Treatment***



***With Kito-R<sub>x</sub> Treatment***

*Kito-R<sub>x</sub> is your best ally when it comes to decreasing your pesticide use and improving your bottom line. It's a natural product that is effective at helping the plant protect itself against a large spectrum of plant stressors. Kito-R<sub>x</sub> has high carbon source nutrients that enhance the plants' uptake of your current fertilizers, allowing for a reduction in inputs and an improved return on investment.*



## *Kito-R<sub>x</sub> Technology is a sustainable alternative that aims to:*

- *Protect and stimulate the seed*
- *Enhance plant's growth and development*
- *Resistance elicitor inducing systemic responses*
- *Reduce biotic and abiotic stress*
- *Enhance the soil health*
- *Enhances control of nematodes and their eggs*
- *Increase yield*
- *Improve the quality of production*
- *High carbon source of nutrients that is safe for all types of fruits, vegetables, turfgrass, trees, and shrubs*
- *Provides over 18 L-Amino acids plus other organic acids for direct absorption through leaves and roots*
- *Immediately-available Nitrogen, Phosphorous, Potassium, and micronutrients for rapid assimilation*
- *Higher and more efficient uptake of nutrients*
- *Engineered for maximum compatibility and is tank-mixable with most fertilizers and pesticides. Jar testing is recommended to confirm compatibility*



*Apply Kito-R<sub>x</sub>, especially when crops need a physiological stimulus, such as germination, the start of the vegetative cycle, pre-flowering and petal fall, and fruit development.*





# Guaranteed Analysis

Total Nitrogen (N)	3%
Available Phosphate (as P <sub>2</sub> O <sub>5</sub> )	4%
Soluble Potash (K <sub>2</sub> O)	3%

**Derived from:** Corn Steep Liquor

*Also Contains Non-Plant Food Ingredients: Chitosan oligosaccharide, and Fulvic Acid.*

**Do not allow to freeze. Shake well before use.**

**Directions for Use:** Shake well before diluting with water.

APPLICATION	PROFESSIONAL	HOMEOWNER
AT PLANTING	2-4 quarts/Ac (5-9 L/Ha)	2 oz/gallon – Repeat weekly
ESTABLISHED	1-2 quarts/Ac (2-5 L/Ha)	1-2 oz/gallon – Repeat 2-4 weeks
FOLIAR	1-2 quarts/Ac (2-5 L/Ha)	1 oz/ gallon – Repeat 2-3 weeks
SEED TREATMENT	0.25% or 8 oz/50 lbs. of seed (250 ml/100 Kg) dilute with water	
HYDROPONICS	1-2 oz/250 gallons of nutrient solution (30-60 ml/ 1000 Liters)	

\*These are standard recommendations that can vary according to soil properties, cultivated crop and local conditions.



## **STORAGE**

*Store above 40°F. Store product in dry place, in original container only. Keep lid tightly closed. Keep away from open flame or intense heat.*

## **WARRANTY**

*Due to the fact that soil, weather, and crop conditions may vary, Plant Natural Innovations® makes no guarantees or warranties, whether expressed or implied concerning the use of this product. The user of this product takes full responsibility and assumes all risks of usage or handling of this product, whether application instructions were followed or not.*

## **NET CONTENT SIZES AVAILABLE**

*32 oz*

*1 gallon*

*2.5 gallon*

*5 gallon*

*55 gallon*

*275 gallon*

## **WEIGHT PER GALLON**

*10.5 lbs/gal*

## **pH OF UNDILUTED PRODUCT**

*4.0 - 5.0*

## **STORAGE LIFE**

*Typically Two Years from date of production, depending upon storage conditions*

## **AVOID CONTACT WITH SKIN, EYES OR CLOTHING.**

*In case of contact, immediately flush skin, eyes, or clothing with plenty of water for several minutes.*







# Plant Natural<sup>TM</sup>

I N N O V A T I O N S

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