

E R G O F I T O I N A C T I O N

Give Nature What Nature Wants

Greening Disease

huánglóngbìng



ERGOFITO

www.ergofito.co.za

Tel: + 27 21 447 7114 / Email: ergofito@telkomsa.net

Greening Disease:

Citrus greening disease (Chinese: 黃龍病; pinyin: huánghóngbìng; literally: "Yellow Dragon Disease"), abbreviated as HLB, is a disease of citrus caused by a vector-transmitted pathogen. The causative agents are motile bacteria, *Candidatus Liberibacter* spp.

The disease is vectored and transmitted by the Asian citrus psyllid, *Diaphorina citri* Kuwayama, and the African citrus psyllid, *Trioza erytreae* Del Guercio, also known as the two-spotted citrus psyllid. It has also been shown to be graft-transmissible.

Three different types of HLB are currently known: The heat-tolerant Asian form, and the heat-sensitive African and American forms. The disease was first described in 1929 and first reported in China in 1943. The African variation was first reported in 1947 in South Africa, where it is still widespread.

Cryptogamous Attacks and Bacterioses:

These diseases initiate from situations where imbalances, nutrient deficiencies and soil exhaustion have set in. In other words it is the unavailability, when the plant needs it, of organic and mineral compounds needed to defend against diseases.

A healthy plant can endogenously synthesize anticryptogamic substances and antibodies (i.e phytoalexins). **Ergofito** micro-organisms occupy and dominate spaces in plants and soil. This fact together with all the principles which have been brought forth reveals a synergetic series of physical, chemical and biological reactions that intercept pathogens (agents of disease). This synergy means that the activities of two actions manifest a third, much more potent, one. Thus the power of the crop's immune system rises exponentially and the normal arithmetic sum becomes $2 + 2 = 8$ and not 4.

In nature we have no free spaces so the strongest element occupies the space. If **Ergofito's** bacterial life occupies a space it vigorously repels pathogens on the bacterial battleground, as it is far higher in the competition hierarchy.

Where there is **Ergofito** bacterium, there is no space for pathogens.



ERGOFITO

www.ergofito.co.za

Tel: + 27 21 447 7114 / Email: ergofito@telkomsa.net

Treatment Protocol:

The application below is **RADICAL**

Application	Quantity	When
Ergostart Bio	100Kg per Hectare	Immediately
Ergofito Universal	4Kg per Hectare	Immediately
Ergofito Algae	0.75 Kg per Hectare	Immediately
Ergofito Cu/Zn	0.75 Kg per Hectare	Immediately

Additionally to the treatment above, we require the following application:

The application below is **FOLIAR**

Application	Quantity	When
Ergofito Stim	2Kg per Hectare	Two weeks after the above application

The above combined quantum requires **four** applications.

In total, the following product is required per hectare:

Ergostart Bio	400 Kg
Ergofito Universal	16 Kg
Ergofito Algae	3 Kg
Ergofito Cu/Zn	3 Kg
Ergofito Stim	8 Kg



ERGOFITO

www.ergofito.co.za

Tel: + 27 21 447 7114 / Email: ergofito@telkomsa.net

Research done by the University of Florida



UF-CREC, Lake Alfred, FL

**Significant symptoms of HLB disease.
February 2013.**



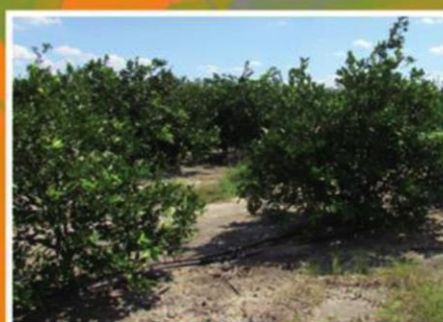
UF-CREC, Lake Alfred, FL

**Same tree after 6 months of Ergofito
applications. October 2013.**



UF-CREC, Lake Alfred, FL

**Prior to application with Ergofito
products. February 2013.**



UF-CREC, Lake Alfred, FL

**After 6 months of product application.
October 2013.**

Research done at University of Florida,
Citrus Research and Education Center
experimental grove in Lake Alfred, FL.



ERGOFITO

www.ergofito.co.za

Tel: + 27 21 447 7114 / Email: ergofito@telkomsa.net