



**PRODUCT INFO  
& DATASHEET**

Biostimulant & Biological Activator  
Humic & Fulvic Acids

## LEARDITE-L<sup>®</sup>

*Liquid natural organic soil amendment with high contents of fulvic and humic acids extracted from Leonardite*  
(for soil application & drip irrigation)

15/06/2017

### 1/ PRODUCT DESCRIPTION & CHARACTERISTICS

LEARDITE-L<sup>®</sup> is an organic amendment with a high content of active organic substance and readily available, made up of humic and fulvic acids extracted from Leonardite, one of the purest fossil humus available on the market. Humic acids, naturally present in soil that is well enriched with organic substances, are obtained from chemical and microbic degradation of vegetable and animal residue present in the soil; a good amount of humic substances is the basis for fertility in any type of soil.

The application of LEARDITE-L<sup>®</sup> carries out important biological actions and functions both in the soil and on the plant:

- a. it increases the ionic exchange power and promotes mobilization of phosphorus and microelements (in particular iron and manganese); it therefore promotes root development, controls chlorosis phenomena and increases the chlorophyll content thanks to the major availability of iron.
- b. it increases the absorption of nutritive elements, both for the increase of the permeability of the cell wall (permease), and the kelating effect which protects and keeps available the nutrients from insolubility and leaching phenomena.
- c. it stimulates the vegetative development (cellular distension) as it increases the enzymatic activity (simil-hormone action).
- d. it improves the structural characteristics of the soil, in particular water retention; useful element in sandy soil; thanks to high absorbing power, it inhibits the activity of toxic organic and inorganic substances in the soil.

### 2/ PRODUCT ANALYSIS

<u>Composition</u> :	<u>% w/w</u>	<u>% w/v</u>	<u>Specification</u> :	
Organic matter	14	15	pH	9-10
Organic matter (on dry matter)	83	88.8	Density	1070 g/lt
Humic organic matter (on dry matter)	90	96.3	<u>State</u> :	Liquid
Organic Nitrogen (N) (on dry matter)	0.85	0.91	<u>Application</u> :	Soil & Drip irrigation
Radio C/N	54-58	54-58		

### 3/ INSTRUCTIONS FOR USE

**DOSES, WAY & TIME OF APPLICATION** (Doses are referred to each application)

CROPS	APPLICATION RATE	NO. AND TIME OF APPLICATIONS
Fruit trees, grapes	Soil irrigation - greenhouse: 2-4 g/m <sup>2</sup> (1.8-3.7 ml/m <sup>2</sup> )	2-4 applications beginning from vegetative renewal every 15-20 days
Vegetables		2-3 applications beginning from after transplanting, every 15-20 days
Leafy vegetables Strawberries	Soil irrigation - open ground: 15-20 kg/ha (13-18 lt/ha)	1-2 applications from 15 days after transplanting
Ornamental crops		1-2 applications during the first stages of growth
Industrial crops		2-3 applications beginning from before seeding

### ADVANTAGES

- Stimulates root growth
- Improves the structure of the soil and water retention
- Reduces the loss of elements in the soil because of leaching and insolubility
- High complexing capacity
- High content of humic and fulvic acids

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

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EVERY TIME THE RIGHT SOLUTION



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**GENERAL APPLICATION & DOSAGE**

**Dosage:**

- greenhouse	: 1 - 2 kg/1000 m <sup>2</sup>
- open field	: 10 - 12 kg/ha

**Use:**

When to use (cultivation & application period)

1. Vegetables / Strawberries: 2 - 3 interventions in post-transplant; to promote rooting; repeat during initial stages of growth.
2. Vine: 2 - 3 interventions in post-transplant; to promote rooting; repeat during initial stages of growth.
3. Apple, Pear, Drupaceous: 2 - 3 interventions in post-transplant; to promote rooting; repeat during initial stages of growth.
4. Olives: 2 - 3 interventions in post-transplant; to promote rooting; repeat during initial stages of growth.
5. Citrus Fruit: 4 - 5 at vegetative recovery and during fruit swelling.
6. Ornamental Flower Cultivations: 2 - 3 interventions in post-transplant; to promote rooting; repeat during initial stages of growth.
7. Industrial Cultivations: In pre-sowing or at the beginning of the cultivation cycle.
8. Nursery/Seed bed: 2 - 3 interventions during initial stages of growth.

**4/ NOTE & WARNING**

LEARDITE-L<sup>®</sup> is compatible with traditional fertilisers used for soil irrigation and is very useful in applications with other products containing iron and microelements.

It is very important not to use LEARDITE-L<sup>®</sup> in solutions with very acid chemical compounds, mineral oils, sulphur, polysulphides and cupric compounds. The product is stable between +5 °C and +35 °C. Store in a well-ventilated, cool, dry place, away from sources of heat/ignition. Protect from sunlight.

**5/ PACKING**

- 1) 1 lt bottle (carton 1 lt x 16)
- 2) 6 lt can (carton 6 lt x 2)
- 3) 20 lt can