



# Lattice<sup>®</sup>

## NUTRIENT EFFICIENCY BIOSTIMULANT

**An at planting, drench and open field applied bio-stimulant for use on a range of crops including sugar beet, potatoes, and brassicas to improve microbial activity and nutrient availability leading to potential yield and quality increases.**

**Formulation:** Wettable powder (WP)

**Contains:**

*Companilactobacillus pabuli* CNCM-I-3699 ..... min **1X10<sup>8</sup> UFC/g**  
*Lacticaseibacillus rhamnosus* CNCM-I-3698 ..... min **1X10<sup>8</sup> UFC/g**

**Read the label carefully before use.**

**For use in professional agriculture and horticulture.**

**Mode of Action:**

LATTICE is a wettable powder containing an inoculum of *Companilactobacillus pabuli* CNCM-I-3699 and *Lacticaseibacillus rhamnosus* CNCM-I-3698 for use as a bio-stimulant.

Lattice improves rhizosphere soil structure and acidification leading to increases in nutrient availability, for example phosphorous, and water retention around the roots. This ultimately helps optimise plant growth so benefiting crop yield and quality.

**CLP classification:**

None - LATTICE is not classified as dangerous according to Regulation (EC) No.1272/2008.

**Precaution:**

Contains micro-organisms: may cause sensitisation reactions.

Contains milk: not suitable for human consumption. Waiting period for grazing or use of crops as feed: 21 days

**Manufacturer:**

STI BIOTECHNOLOGIE  
Za du Coglais  
35460 MAEN ROCH  
FRANCE

**Authorisation Holder:**

**Corteva Agriscience UK Limited**

Unit H4, Building H, Melbourn Science Park, Cambridge Road, Melbourn, Cambridgeshire SG8 6HB  
For Technical Enquiries Call: 0800 6898899 or  
email: [ukhotline@corveva.com](mailto:ukhotline@corveva.com)

**24 Hour Emergency Telephone Number: 0161 884 1235**

National Poisons Information Service: 111

**Manufacturing date:** see packaging

**Recommendations of use:**

LATTICE is suitable for use in open fields, as well as protected environments on a variety of crops.

**Application Methods & Preparation of the spray mixture:**

LATTICE can be applied via broadcast spray on the soil surface, in furrow, by drip-irrigation or as a drench application at planting.

<b>Drip Application</b>	1 kg/ha diluted into 500-2000 l/ha of water
<b>Soil Application / In furrow Application</b>	1 kg/ha diluted into 200-400 l/ha of water <ul style="list-style-type: none"> <li>• Fill the tank with 1/3 – 1/2 water</li> <li>• Pour LATTICE directly into the water (not through the sieve) while maintaining agitation.</li> <li>• Continue agitation until all LATTICE has been fully dissolved.</li> <li>• Add other products (please see the compatibility section for details and warnings)</li> <li>• Add remaining water.</li> </ul>
<b>Drench-Tray Application</b>	Maintain constant agitation. The product should be sprayed over the (young) plants just before transplanting. Determine the amount of water needed to thoroughly drench transplant plugs / modules in their tray without runoff through the bottom of the tray. The amount of water needed will vary by size of the transplant plug / module. Multiply the amount of water needed per tray by the number of trays to be treated. Stop watering 24 hours before treatment to optimise absorption. Apply as a low pressure, coarse, high volume spray. Apply sufficient spray solution for run off from the foliage to the soil/potting media in the tray but ensure no runoff from the bottom of the tray. Wash solution from foliage by making a second pass with water only before the spray solution dries. Applications should be made within 3 days of transplanting plants into the field. Allow trays to dry before transporting to the field for planting. The use rate is 1kg per ha. Adjust the rate per 1000 plants based on your planting density.  <b>For Protected, Greenhouse crops:</b> <ul style="list-style-type: none"> <li>- Tomatoes, Aubergine, Cucumber, Watermelon: 65g per 1000 plants (based on a planting density of 15 000 plants per hectare)</li> <li>- Courgette: 100g per 1000 plants (based on a planting density of 10 000 plants per hectare)</li> <li>- Pepper: 50g per 1000 plants (based on a planting density of 20 000 plants per hectare)</li> <li>- Lettuce and Baby Leaf Salads: 10g per 1000 plants (based on a planting density of 10 000 plants per hectare)</li> </ul> <b>For Open-field crops:</b> <ul style="list-style-type: none"> <li>- Cabbages and Cauliflowers: 40 g per 1000 plants (based on a planting density of 25 000 plants per hectare)</li> <li>- Cabbages, Kale, Broccoli, Red cabbage, Brussels Sprouts, White cabbage: 30 g per 1000 plants (based on a planting density of 33 000 plants per hectare)</li> <li>- Tomatoes: 40 g per 1000 plants (based on a planting density of 25 000 plants per hectare)</li> <li>- Melon: 170 g per 1000 plants (based on a planting density of 6 000 plants per hectare)</li> <li>- Lettuce and Baby Leaf Salads: 15 g per 1000 plants (based on a planting density of 70 000 plants per hectare)</li> </ul>

Recommended application rates, number and timings are specified in the table below.

**NET CONTENTS : 3 KG e**

**50 x 15 mm  
2D data matrix and the area**

Crop(s)	Field (F) or greenhouse (G)	Product rate per application (Kg/ha)		Number of applications per crop		Frequency of (Interval between) application	Water volume (L/ha)		Crop growth stage at application	Method of application
		Min	Max	Min	Max		Min	Max		
<b>Protected / Greenhouse vegetables grown in soil or in artificial substrates</b> ( <i>rockwool substrate</i> ) including: - root vegetables, - fruiting vegetables, - flowering vegetables - leafy vegetables (e.g. tomato, cucumber, pepper, aubergine, lettuce, Brassicas)	G	1	1	1	2	7 to 14 days	500	5000	Immediately before or after planting followed by 7-14 days after planting	Soil application or soil application in furrow, drip irrigation or tray-drench application
<b>Field vegetables</b> including: - seeded vegetables - root vegetables, - fruiting vegetables, - flowering vegetables - leafy vegetables (e.g. tomato, cucumber, pepper, carrot, onion, lettuce, cabbage, garlic, red beet, parsley)	F	1	1	1	2	7 to 14 days	500	5000	Immediately before or after planting followed by 7-14 days after planting  Seeded vegetables: first application to be done at the latest 1 month after seeding, second 7-14 days after first one	Soil application or soil application in furrow, drip irrigation or tray-drench application
<b>Flower bulbs</b>	F	1	1	1	2	7 to 14 days	500	5000	Immediately before or after planting, and/or after bulb begins to elongate	Bulb drench, soil application or soil application in furrow, drip irrigation
<b>Potato</b>	F	1	1	1	2	7 to 14 days	200	400	Immediately before or after planting followed by 7-14 days after planting	Soil application in furrow or drip irrigation
<b>Vineyards</b> (e.g. wine grapes and table grapes) & <b>Orchards</b> (e.g. pome fruits, stone fruits, citrus)	F	1	1	1	2	7 to 14 days	500	5000	Early spring application, once spring growth begins	Soil application or drip irrigation
<b>Berries</b> (e.g. blueberries, blackberries, strawberries, gooseberries, raspberries, cranberries)	F	1	1	1	2	7 to 14 days	500	5000	Early spring application, once spring growth begins	Soil application or drip irrigation
<b>Tree nurseries</b>	F/G	1	1	1	2	7 to 14 days	500	5000	Early spring application, once spring growth begins	Soil application or drip irrigation or tray-drench application
<b>Tree nuts</b> (e.g. macadamia, walnuts, chestnuts, hazelnuts, almonds)	F	1	1	1	2	7 to 14 days	500	5000	Early spring application, once spring growth begins	Soil application or drip irrigation
<b>Sugar beet</b>	F	1	1	1	2	7 to 14 days	200	400	Immediately before or after planting	Soil application, broadcast or in furrow

## DIRECTIONS FOR USE

### Soil condition:

Apply LATTICE to moist soils and preferably when soil temperatures are between 5-25°C.  
Avoid applying when frost is forecast within 7 days of application.

### Compatibility:

For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or [ukhotline@corteva.com](mailto:ukhotline@corteva.com).

## **SAFETY PRECAUTIONS**

### **Operator protection:**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

TAKE OFF IMMEDIATELY all contaminated clothing.

WASH HANDS / EXPOSED SKIN before meals and after work.

Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling.

### **Environmental protection:**

Do not contaminate water with the product or its container. (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads).

Collect spillage.

After spraying, wash out application equipment including the sprayer tank and drip irrigation tank, boom, circuit, nozzles, etc. with clean water. Dispose of washings and clean containers according to the DEFRA Code of Practice and local authority guidelines

### **Storage and Disposal:**

Do not re-use the container for any purpose.

Dispose of contents /container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

When using the product, thoroughly empty and rinse the container three times with clean water, making sure to pour the rinsing water into the sprayer tank.

### **Recommended storage conditions:**

Keep the product only in its original packaging, away from food and drink, including those for animals. Keep out of the reach of children and unauthorised persons.

**Shelf Life:** 24 months at controlled temperature of 5°C and 20 months at room temperature (20 - 25°C).

Store the product away from direct sunlight, heat and moisture, at room temperature, in a dry and well-ventilated area and in the original container. Avoid frost and high temperature fluctuations. Keep the product tightly closed. After opening the sachet, the product should be used quickly.

## **TRADEMARK ACKNOWLEDGEMENTS**

LATTICE is a trademark of Corteva Agriscience and its affiliated companies.

All other brand names are trademarks of other manufacturers for which proprietary rights may exist.

### **Corteva Agriscience Conditions of Supply:**

The composition, formulation and the nutrient contents contained are guaranteed by Corteva Agrisciences. Conduct cultivation and applications according to good agricultural practice. The recommendations and information given are the result of rigorous research and trials. It is essential that any instructions given by Corteva Agrisciences are strictly followed. All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

For further information please contact Corteva Agriscience.

To access the Safety Data Sheet for this product, scan the QR code or use the weblink below:



<https://www.corteva.co.uk/content/dam/dpagco/corteva/eu/gb/en/files/sds/LATTICE-SDS.pdf>

Alternatively contact your supplier

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