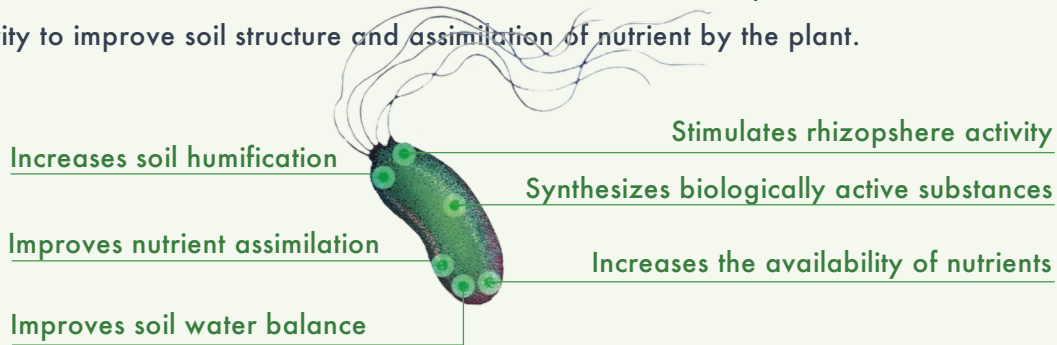


# Solagra

## Natural soil stimulation

### Solagra

is a soil stimulant based on the soil bacteria *Pseudomonas putida*, strain i-4613. It works via enzymatic activity to improve soil structure and assimilation of nutrient by the plant.



1. Solagra increases soil humification which improves soil structure resulting in increased;  
- water infiltration - water retention - soil aeration - drainage
2. Solagra solubilizes nutrients thereby allowing easier assimilation by the plant.
3. Solagra improves soil water balance by maintaining water reserves at a more balanced level, thereby reducing plant stress in summer months.
4. Solagra is active in the rhizosphere, the area immediately around the root.
5. Solagra produces plant hormones, such as IAA, stimulating plant growth and improving root development.
6. Solagra increases the soil ion concentration, thereby increasing the availability of soil nutrients

Target Crops	Timing	Dose
Maize, Potatoes, Sugar Beet, Orchards, Vines	Feb-May or Aug-Nov	0.8 - 1.0kg/Ha

### Application

- Solagra is intended to condition the soil, apply in the autumn or spring, or both.
- Additive improvements in yield have been seen following year-on-year applications.
- All crops in the rotation will benefit from the improvements in soil structure.
- Spray onto the soil in wet conditions following heavy rain, dew or irrigation. Alternatively incorporate mechanically after application.

## Improved soil structure benefits plant health

### 2018 Sugar Beet field trial - Doncaster

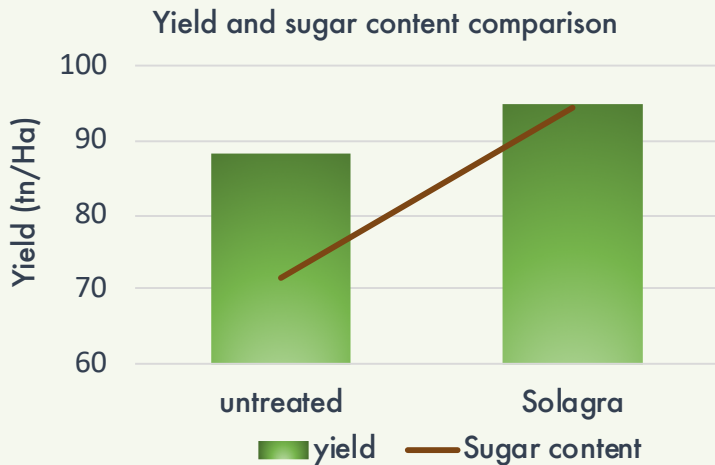


Chart shows

- **6.5t/ha increase** in yield,
  - equating to 7.4% increase.
- **0.43 increase** in percentage sugar content.
- Solagra applied at 1kg/Ha on the 3<sup>rd</sup> May 2018, 1 day after planting.

### 2018 Potato field trial - Nottingham



Chart shows

- **3.2t/ha increase** in yield,
  - equating to 12% increase.
- Solagra applied at 1kg/Ha on the 21<sup>st</sup> May 2018, pre-planting.
- Trials have also shown Solagra to reduce the % of small tubers produced and increase the % of marketable fraction.

Visual observations in other studies have revealed significant improvements in soil structure when treated with Solagra. Soil is darker, has a greater proportion of fine soil aggregate and is more crumbly. This indicates increased soil humification, balanced moisture availability and improved aeration.

**Improved soil structure** improves rooting potential, in addition, the increased solubilisation of nutrients allows for greater uptake by the plant thereby **increasing yield and quality**.