

# C5 TundraBac

The next generation bacterial  
inoculant ensuring that your  
plants grow strong and healthy



# Andermatt

• • • • • Canada

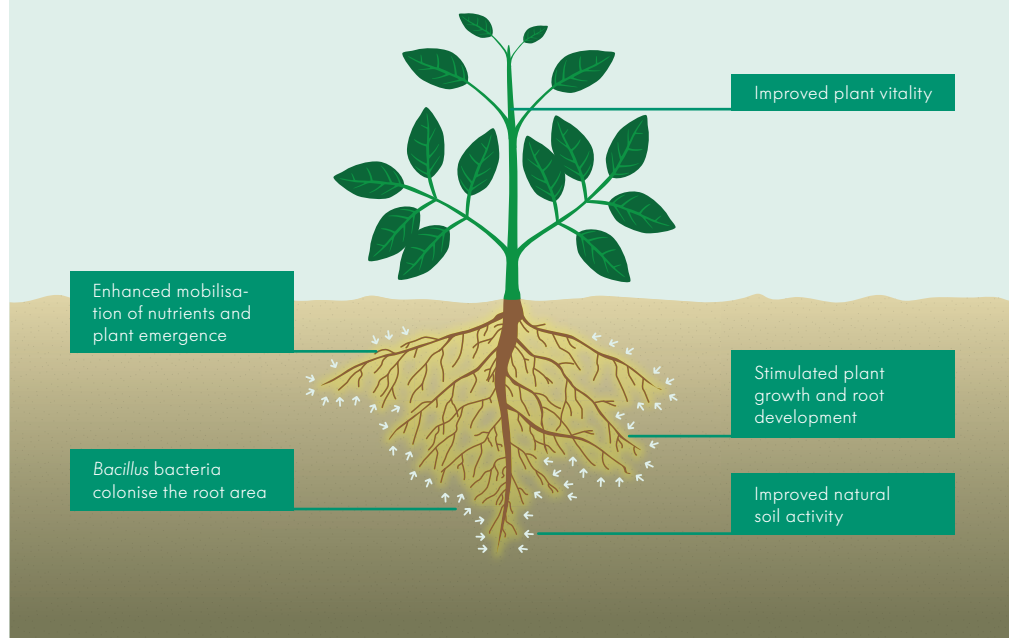
## C5 TundraBac – the good bacteria for the soil

C5 TundraBac is a biostimulant containing spores of the soil bacterium *Bacillus atrophaeus* ABi05 ( $> 2.5 \times 10^{10}$  cfu/ml). After application, the spores germinate and colonise the young growing roots. The bacteria release enzymes and further compounds which stimulate plant growth and mobilise plant nutrients.

- ✓ *Bacillus atrophaeus* ABi05
- ✓ High concentration:  $2.5 \times 10^{10}$  cfu/ml
- ✓ Germination at 8 °C soil temperature
- ✓ Easy storage: 2 years at < 25 °C
- ✓ Highly compatible with plant protection products and fertilisers

## Ensures that your plants grow strong and healthy!

C5 TundraBac helps the plant to build a strong and healthy root system and to improve its tolerance towards abiotic stress (water deficiency, salinity). C5 TundraBac is already active at very low soil temperatures (8 °C) and hence favours a healthy plant development, also during cold periods. Consequently, application of C5 TundraBac results in increased plant growth and higher yields. **C5 TundraBac is your insurance** to overcome and cope better with unfavourable conditions (e.g. water stress, sudden drop in temperatures) and therefore always has to be applied as early as possible.



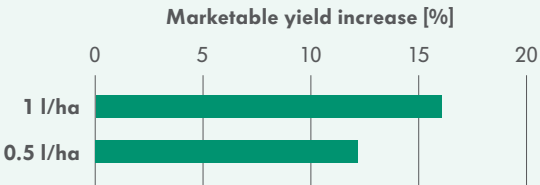
## Application

Use C5 TundraBac as an integral part of a future oriented production strategy. A first application at sowing or planting is highly recommended for any crop. C5 TundraBac is highly compatible and can be flexibly mixed with other plant protection and plant nutrition products. In combination with fertilisers, fungicides or conventional seed treatments, synergistic effects can be achieved.

## Horticulture

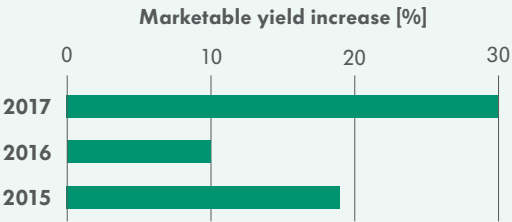
C5 TundraBac can be applied as a seed treatment, by watering or spraying before or just after planting or sowing. C5 TundraBac can also be directly injected into fertigation or hydroponic systems.

### Onions



Yield increase after directed band treatment at sowing with ABi05, compared to untreated control.  
(Source: AgroNord, Sanitz, Germany, 2016)

### Carrots



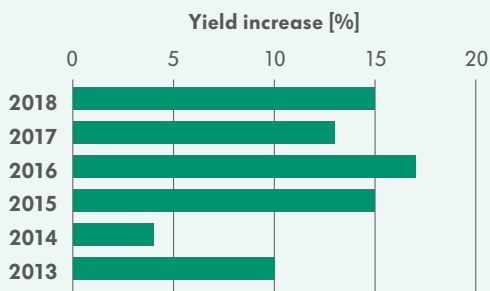
Yield increase after directed band treatment at sowing with ABi05 (0.5 l/ha), compared to untreated control.  
(Source: AgroNord, Sanitz, Germany)

## Potatoes

Apply C5 TundraBacon seed potatoes by dipping, spraying, or directly as an in-furrow application during planting.

- Improved nutrient mobilisation and plant emergence
- Improved root development and tuber formation
- Increased yield

## Potatoes

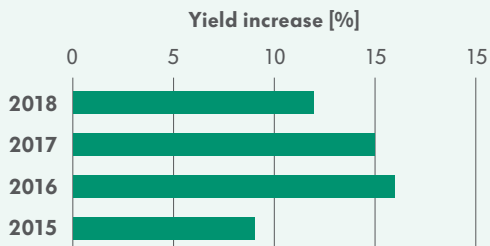


Yield increase after directed band treatment at sowing with ABi05 (1 l/ha), compared to untreated control.  
(Source: AgroNord, Sanitz, Germany)

## Cereals

C5 TundraBac seed treatments help to produce higher yields, especially in poor or dry soils. It can also be used in combination with conventional seed coatings or mineral fertilizers.

## Corn
























Yield increase after directed band treatment at sowing with ABi05 (0.5 l/ha), compared to untreated control.  
(Source: AgroNord, Sanitz, Germany)

## Application methods

- Seed treatment or in-furrow spray
- Watering or spraying on soil surface
- Injection into fertigation or hydroponic systems
- Root dipping
- Mixing into soils and substrates
- In combination with plant protection products or fertilisers

## Application rates

Crop	Application rate*	Application method
Potato	0.5–1 l/ha or 0.1 l/500 kg tubers	 / 
Tomato, cucumber, others	1–2 l/ha	2 ×  / 
Lettuce	0.5 l/ha	 / 
Carrots, turnip, cabbage, others	0.5 l/ha	 + 
Strawberry	1 l/ha	2 ×  / 
Cereals (maize, grains, rice)	0.2 l/100 kg seeds	
Seeds (ornamentals, vegetables etc.)	0.2–0.5 l/100 kg seeds	
Herbs	1 l/ha	 / 
Bulbs	1–2 l/ha	 / 
Ornamentals	1–2 l/ha	2 ×  / 
Turf	1 l/ha	2 ×  / 
In hydroponics	1–2 l/ha	

**Depending on the crop, re-application is recommended after 4 to 6 weeks**

 seed treatment  
  dipping  
  watering  
  spraying  
  hydroponics

\* All indications given for liquid formulation

### Formulation

The standard formulation is liquid, with a high concentration of *Bacillus atrophaeus* ABi05 . C5 TundraBac is compatible with most commonly applied crop inputs.



# C5 TundraBac

- ✓ Increases crop yield and stress tolerance
- ✓ Improves root growth and nutrient mobilisation
- ✓ Enhances plant emergence
- ✓ Well mixable with fertilisers and plant protection products
- ✓ Easy to store and apply
- ✓ Fully compatible with organic and residue free production



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