envita® SC

Systemic Nitrogen Fixation

Right Place. Right Time.

azotic™

envita Systemic Nitrogen Fixation

Nitrogen Fixation in Potatoes is Now Possible

Envita® works within plant cells to fix atmospheric nitrogen to a usable form – dramatically improving yield, nitrogen availability and sustainability

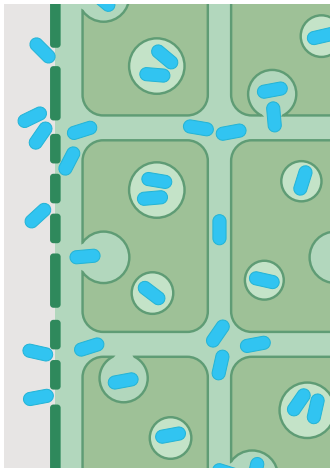
What is Envita?

- Envita is a naturally occurring, food grade bacteria called *Gluconacetobacter diazotrophicus* which was originally discovered in sugarcane
- These bacteria form a symbiotic relationship with the plant to provide nitrogen directly to the cells of leaves and roots throughout the growing season

How Does Envita Work?

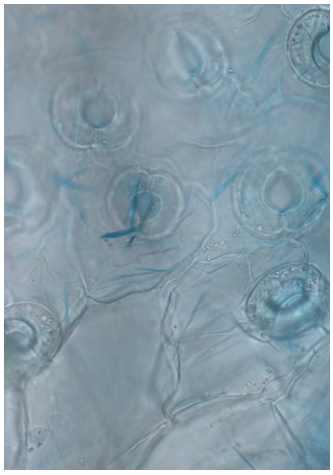
- Quickly establishes itself within the plant
- Fixes nitrogen directly in plant cells where nitrogen is needed
- Moves systemically and colonizes new growth
- Provides season-long nitrogen supply

Envita Colonizing the Plant

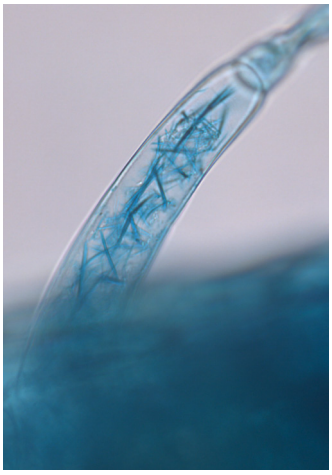


Upon entering the plant, Envita bacteria colonize inside plant cells

Envita bacteria forming a biofilm on the outside of the plant



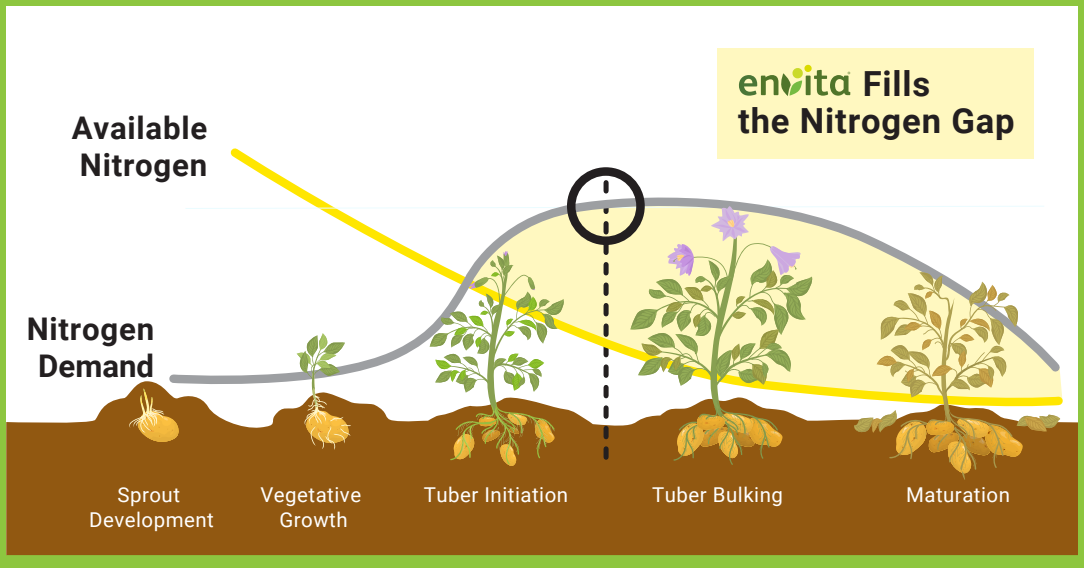
Envita bacteria dyed blue entering through the stomata



Envita bacteria dyed blue entering through leaf hairs

Envita Fills the Nitrogen Gap

- The way nitrogen fertilizer is applied is typically inefficient, largely due to processes such as volatilization and leaching. N applied early is not as available later in the season where it is often needed, leading to a gap between crop requirements and availability. Envita fills the nitrogen gap with consistent sustainable nitrogen.
- Envita provides a constant season long supply of nitrogen from within the cells of the plant – exactly where nitrogen is needed – filling the gap between available N and required N.

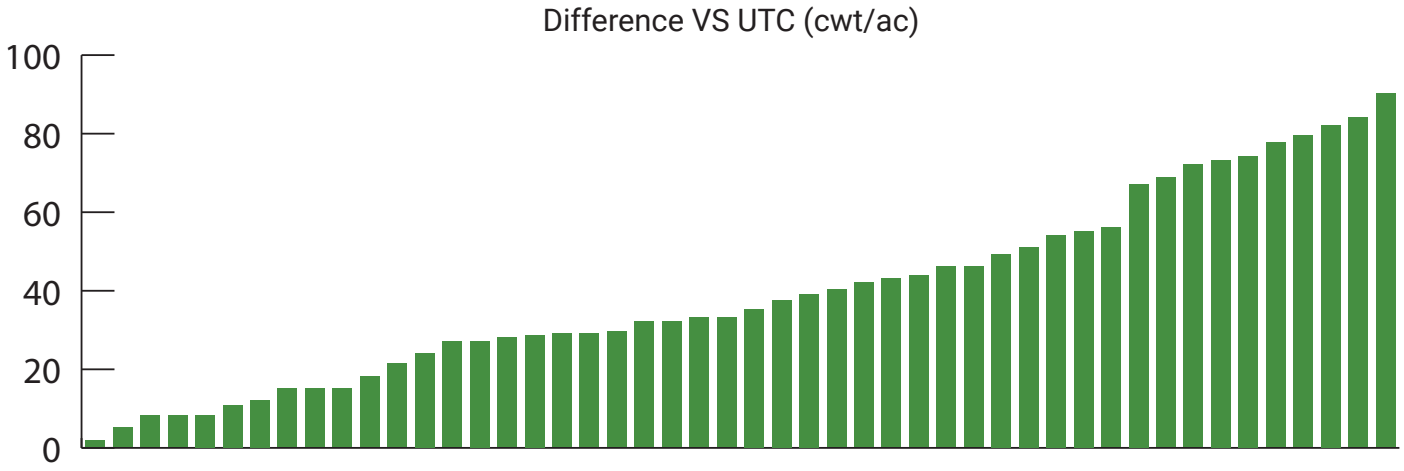


Consistent Results Proven to Perform

- Across small plot and large farm trials, Envita consistently delivers an average yield increase of 39 cwt/ac when combined with standard fertility programs
- Yield benefit seen through an increase in the number of the same sized tubers, meaning grading is typically unaffected
- Across 45+ trials in Canada, the USA, UK and Europe, Envita increased yield by 39 cwt/ac on average

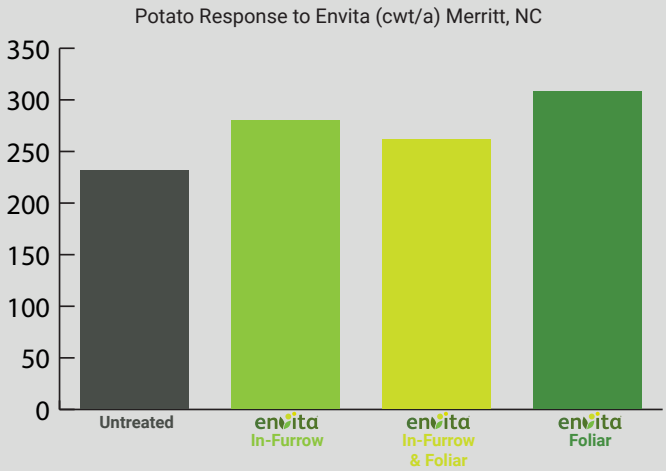
39+ cwt/ac
Average Yield Increase

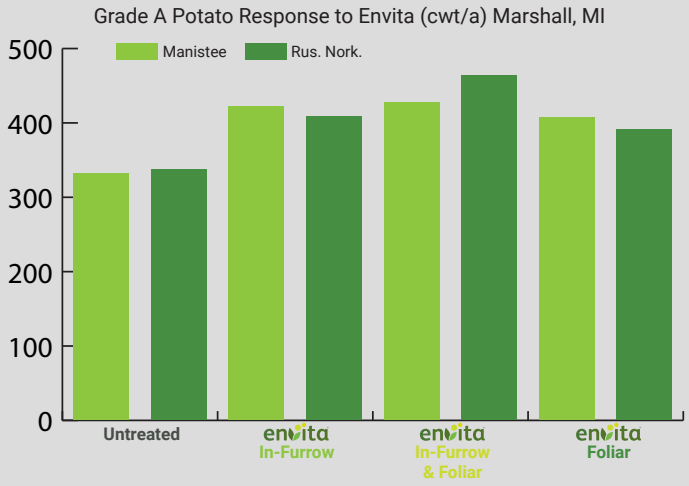
Global Trial Results with Envita



3rd Party Independent research

- Advanced growth
- Improved tuber set
- Consistent yield increase
- Deeper rooting systems and more efficient nutrient scavenging
- Improved canopy function





Envita is Easy to Use – Fits Your Farm

Using Envita:

- Include Envita with your existing fertility program to increase yield or use as part of a reduced N-fertility program
- Can be applied in furrow or as a foliar spray
- Compatible with leading foliar fungicide and herbicide tank-mixes. Consult label and use instructions for details.
- Not recommended for use with copper based fungicides
- Apply between post-emergence herbicide timing and end of flowering

Flexible to Fit Your Needs

Russet Norkotah: Southeast, ID

Average of 12 Truckloads of Each Category

Size (oz)	Standard % By Size	Envita % By Size	Envita Benefit
4 - 7	8.5	7.5	88%
7 - 9	18.2	20.8	114%
9 - 14	20.4	19.1	94%
14 +	10.9	13.2	121%
culls	34.2	28.9	85%

Envita offers flexibility to fit your farm without compromising efficacy. Similar yield benefits have been obtained from early and late foliar applications, as seen in this small plot trial.

Typically Envita is applied with the first blight spray when conditions are likely to be optimal for Envita bacteria to colonize the plant.

Contact Us

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