



A Blend of Beneficial Bacteria That Improves Soil and Plant Health

Every handful of soil on earth contains these beneficial bacteria, along with

000 to

other strains.

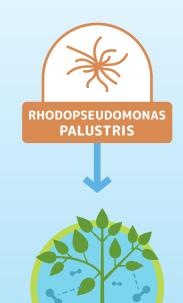


20+ YEARS OF RESEARCH

Over time, we trained five species to perform the most beneficial functions identified for soil & plant health.

Each Bacteria Has a Specific Function

These bacteria have dozens of roles associated with plant health and growth, for example:





Converts ammonia to plant-available nitrate and solubilizes phosphate



Converts nitrite to

nitrate and locked up phosphate to water-soluble phosphate



Converts locked up phosphate to

plant-available

phosphate





growth hormones

Together, **These Bacteria Show Proven Results**

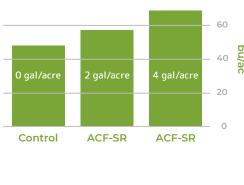
existing soil health, fertility, and synthetic fertilizers. Additional benefits that our producers have reported from using our microbes include:

The bacteria aid the plants in making more efficient use of

Increased Yields

Years of third party, replicated plot work and field trials have confirmed consistent yield increase on a variety of crops. This has been the primary focus of all our research since the release of the product, as we study the benefits of the bacteria in a range of soil types and climates across North America.

DRYLAND SPRING WHEAT



Faster Germination Applying ACF-SR as close to the seed as

possible allows for much faster germination. We have observed significant germination improvements when the bacteria are applied as a seed dressing, or in-furrow. This gives the crop a "head start" and can increase days to maturity in many instances.

Quality Increase We have studied the effects of our bacteria on BRIX levels in fruits and vegetables, but also the effects

the bacteria has on the quality of many other crops. With the ability of ACF-SR to generate root development and nutrient solubilization, more sugars and beneficial properties for quality, tend to increase. **Dose** 1 mL/m2 1.5 mL/m2 3.0 mL/m2 Control

DIIX	8.87	9.02	9.57	8.5

IMPORTANTLY...

MOST

These bacteria access nutrients from the atmosphere and soil that are otherwise in an unavailable form and transform them into a plant-available form.

Fertilizer Efficiency

Access what is already in your soil instead of adding more to feed your plant. ACF-SR has 3 nitrifying bacteria that will capture nitrogen from the atmosphere and convert it to a plant available form. It is also extremely efficient at solubilizing phosphorus and potassium. This means you can have less of a reliance on synthetic products and save on your input program.

Deeper, Stronger **Root Systems**

ACF-SR colonizes the rhizosphere of the root and allows for superior nutrient acquisition. If there's one thing you want to observe in a field treated with our bacteria, it is root development. More root hairs and whiter, longer roots are standard results of using ACF-SR.

Greater Biomass

Multiple research projects with our function-focused bacteria have proven to yield more biomass in a multitude of crops. This has been a very important function of ACF-SR in forage and feed applications, but also for crops that could use a boost in the stem strength to resist environmental stress.

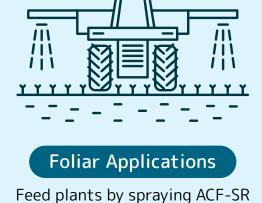
Resistant to Plant Stress Soil biology, driving root development

is the key to not only drought resistance, but really any stress that can be caused to the plant. We like to compare a healthy root system to a healthy immune system in our bodies. Root-colonizing bacteria produce a wide range of enzymes and metabolites that help plants tolerate both biotic and abiotic stresses.

HOW TO USE ACF-SR



Add ACF-SR as you plant seeds



directly on foliage

THE BENEFITS OF USING ACF-SR









Minimum Analysis

Guaranteed



Soil Health





SOURCES Soil Microbial Diversity in Grasslands and its Importance for Grassland Functioning and Services: https://www.ae-info.org/attach/User/Le_Roux_Xavier/Highlight/Chap17%20CABi%20Le%20Roux.pdf

Advanced Ag Technical Discussion: https://www.advancedag.ca/technical-discussion How Does Nitrogen Help Plants Grow: https://www.phoslab.com/how-does-nitrogen-help-plants-grow/ Plant Hormones - an overview | ScienceDirect Topics: https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/plant-hormones

How Does Phosphor Help Plants Grow?: https://www.phoslab.com/how-does-phosphor-help-plants-grow/ Advanced Ag - Microbes for Soil & Crop Health: https://youtu.be/fbqZGlJasA4

Beginners guide to ACF-SR: https://www.advancedag.ca/post/we-hit-a-wall-we-needed-to-change-what-we-were-doing Farmer's First Experience with AAG Biologicals: https://www.advancedag.ca/post/farmer-s-first-experience-with-aag-biologicals

University Strawberry Trial: https://www.advancedag.ca/post/greenhouse-strawberries Biology for Drought Tolerence: https://www.advancedag.ca/post/biology-for-drought-tolerance Advanced Ag Hay Trial: https://www.advancedag.ca/post/2019-hay-trial

"Show Me the Data" - Biologicals in Ag: https://youtu.be/xcNwRZfzwq8

