



**AdvancedAG**



**ACF-SR**

**Plant Growth Promoting Bacteria**



# CANADIAN LEADER IN BIOTECHNOLOGIES

## Our Microbes

AdvancedAG is a Canadian company with over 20 years of leading-edge research on culturing specific bacteria species for a range of applications.

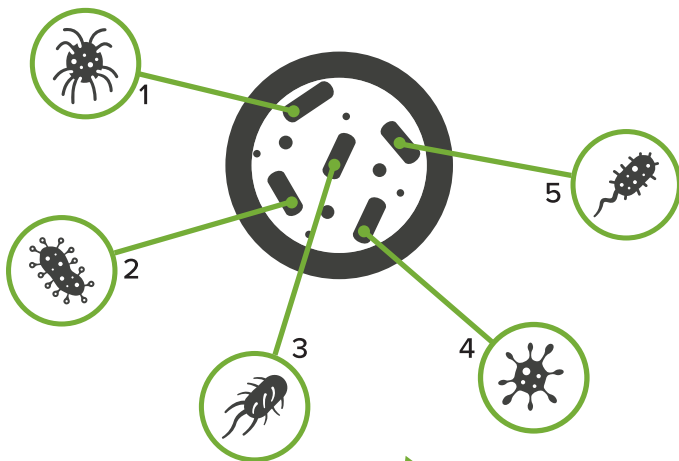
Our proprietary edge allows us to selectively grow, stabilize and blend individual strains of bacteria into biologically active products.

ACF-SR delivers a diverse spectrum of plant growth promoting bacteria (PGPB), that can be cultured days before application for a super concentrated, live dose at an affordable cost.

Most bacterial products focus primarily on basic bacillus and pseudomonas strains, while our blend of bacteria includes 5 of the most effective PGPB, with greater capabilities and benefits.



- 1. Rhodopseudomonas palustris**  
Enhances soil bio activity & nitrogen fixation
- 2. Bacillus licheniformis**  
Enhances soil bio activity & provides plant growth hormones
- 3. Nitrosomonas europaea**  
Converts ammonia to nitrate & solubilizes phosphates
- 4. Nitrobacter winogradskyi**  
Converts nitrite to nitrate & solubilizes phosphates
- 5. Bacillus subtilis**  
Solubilizes phosphates & siderophore production





# CROP TREATMENT

## ACF-SR

Many biological products have a low culture count with a limited variety of bacteria species, making large-scale applications impractical. We put each strain of bacteria in ACF-SR through a series of lab tests to ensure certain plant growth functions are immediately available in the soil.

Our patented brewing process creates an optimal environment for the 5 species in ACF-SR to reproduce rapidly before applying. We have certified locations brewing ACF-SR across Canada. Each location uses our Bacteria Culturing Monitor software to ensure guaranteed product analysis.

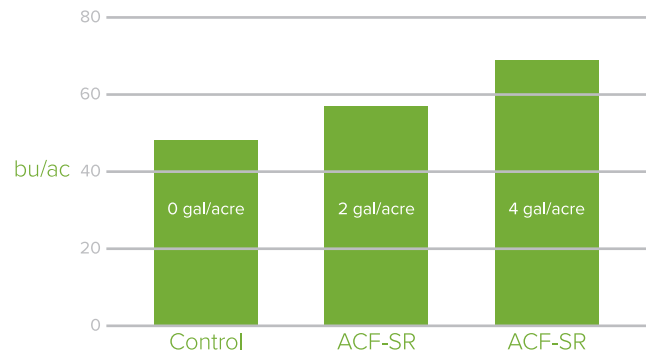
Brewed ACF-SR has a number of benefits for the end user by lowering input costs, while drastically improving crop and soil health.



Unbrewed Product

Brewed 72 hours

## Dryland Spring Wheat



Plot work completed by:



## Research

Research is one of our most important values. We are dedicated to developing an effective line of biological products with a strong reputation in the agriculture industry.

Ask us about our ongoing research projects and product line development.

*"In our first year of applying ACF bacteria, we had noticeable results in our 8500 acres of peas, barley and canola. We noticed an impressive crop root mass that was healthy and bright white in colour, which indicates drought tolerance and overall better yields. We think ACF bacteria are the answer to rebuilding our soil structure and biodiversity for better nutrient cycling and drought tolerance."*

**Ian Mardell, Mardell Farms**  
Snowden, SK

**APPROVED FOR  
ORGANIC USE**



## Bio Solutions to Sustainable Farming

AdvancedAG is an award-winning, southern Alberta company with a mission to develop a team of innovative, inspired thinkers, creating a sustainable shift in the agriculture industry.

Agriculture is the mainstay of our Canadian economy. We believe promoting sustainable farming through natural processes is crucial to the longevity of the industry.

[awtech.ca](http://awtech.ca)

