



AdvancedAG



ACF-SR

Plant Growth Promoting Bacteria

CANADIAN LEADER IN BIOTECHNOLOGIES

Our Microbes

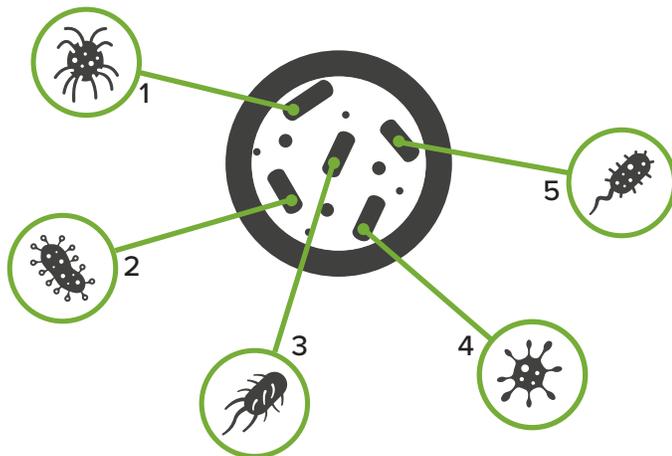
AdvancedAG is a Canadian company with over 20 years of leading edge research on culturing specific bacteria species for a range of applications. Our proprietary edge allows us to selectively grow, stabilize and blend individual strains of bacteria into biologically active products.

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. Rhodospseudomonas 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

Large-Scale Treatment

Many bacterial products have a culture count of only **5 million cfu/mL**, with a limited variety of bacteria species, making large-scale applications impractical.

Our patented brewing process creates an optimal environment for our 5 bacteria species to reproduce quickly right before applying. Brewing allows us to achieve a culture count of over **10 billion cfu/mL** in just 72 hours.

This brewing process is extremely simple and can be done on-site using our Bacteria Culturing Monitors (BCM) or in our brewing facilities.

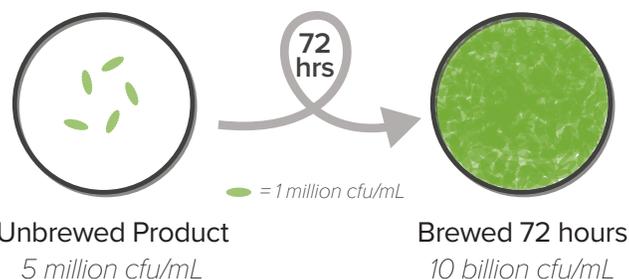
Brewing produces a beneficial blend of bacteria at super high concentrations, lowering input costs, while drastically improving crop and soil health.

Application

The final “brewed” product is in liquid form and is sprayed or applied directly to the soil, at a rate of 2 gallons/acre.

Two concentrated applications are recommended, one as close to seeding as possible, and another 4-6 weeks later.

Ask us about diluting or mixing ACF-SR with other products.



Small-Scale Treatment

Our beneficial microbes have been blended and stabilized in bottle, with a 2-year shelf life for small-scale applications.

Many greenhouse, hydroponic, garden, orchard and turf operations have benefitted from our concentrated, ready-to-use ACF-SR.

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In our first year of applying ACF bacteria, we have noticeable results in our 8500 acres of peas, barley and canola. We noticed an impressive crop root mass that is healthy and bright white in colour, which provides for drought tolerance and 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

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Bio Solutions to Sustainable Farming

AdvancedAG is a division of Advanced Water Technologies (AWT). We are an award winning, southern Alberta company with a mission to develop a team of innovative, inspired thinkers, creating a sustainable shift in the agriculture and water industries.

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

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