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RISEUP + BIOGUARD CUSTOM SEED TREATMENT

What is it? RiseUp + BioGuard is a biologically based custom seed treatment available on certain Blue River and Viking seed corn for 2025. It has been shown to improve emergence, vigor, plant health, and yield, and provides protection from some insects that feed on seedlings.

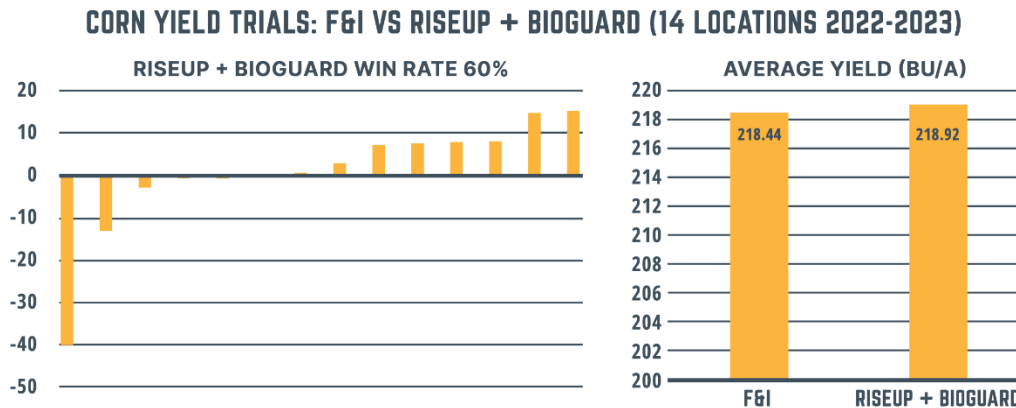
What is in it? RiseUp + BioGuard combines an EPA-registered nematicide that also provides protection against nematode and soil-dwelling insects plus a fungicide with biologicals that have been proven to improve seedling and plant health and growth, which may lead to improved stands and higher yields.

RiseUp + BioGuard is composed of the five OMRI Listed® products below:

1. BIOST® Nematicide 100 is a pasteurized (non-living) formulation of the bacterium *Burkholderia spp.*, which is registered with the EPA as a bio-pesticide. It contains enzymes and metabolites that have proven effective in protecting seedlings from a number of nematodes and soil-dwelling insects including wireworms, seed corn maggots, grubs, and corn rootworm. It has **not** shown activity against cutworm or armyworm. OMRI Listed® as Allowed with Restrictions.
2. Amplitude® ST is an EPA-registered bio-fungicide derived from *Bacillus amyloliquefaciens*. It has proven effective in protecting seedlings from *Fusarium* and *Rhizoctonia*. OMRI Listed® as Allowed with Restrictions.
3. BIOST® Organic VPH is a vegetal protein hydrolysate that provides multiple benefits to seedlings and plants, including improving uptake of major and micro-nutrients as well as stimulation of rhizosphere micro-organisms. OMRI Listed® as Allowed.
4. SabrEx LQ is a blend of *Trichoderma* spores that have consistently improved corn yields by stimulating root growth, plant health, and resistance to abiotic stressors, such as drought. We have used SabrEx LQ on all Viking corn for more than 8 years. OMRI Listed® as Allowed.
5. FarmTalc 80% Talc/20% Graphite is a premium grade seed lubricant that is used to promote seed flow in planters and maximize seed release and spacing. OMRI Listed® as Allowed.

Is it OMRI Listed® for Organic Farms? All the ingredients in RiseUp + BioGuard are OMRI Listed®, but two of them are “allowed with restrictions.” “With restrictions” means that each farmer needs to get pre-approval from his/her certifier before ordering this custom treatment for 2025. We offer a packet of information including product labels, OMRI certificates, and Safety Data Sheets (SDS) that can be downloaded at www.alseed.com/riseupbioguard to make it easy to approach your certifier for a decision, but ultimately each farmer is responsible for getting the approval to use this seed treatment before purchasing seed. **Once purchased, the seed is non-returnable.**

Is it as effective as a hard chemistry fungicide/insecticide? No. RiseUp + BioGuard is not as effective at protecting seedlings as the most widely used chemical fungicides and insecticides. It does not provide protection from cutworm, for example. However, when used properly, studies have repeatedly shown that seed treated with these biologicals has, on average, yielded as much as seed treated with conventional chemicals.



Corn Yield Trials (2022-2023): Standard F&I vs. Albert Lea OMRI Seed Treatment (14 trials)

Why would I use it on my farm?

1. If you are an organic farmer, RiseUp + BioGuard offers the best-available seedling protection from insects and diseases. It allows you to plant with more confidence that you will have uniform stands, healthy seedlings, and improved yields.
2. If you are a conventional farmer, RiseUp + BioGuard gives you a seed treatment option that:
 - a. Eliminates neonicotinoids, which are insecticides linked to pollinator decline. Some food companies are asking that farmers reduce or eliminate their use of these chemicals.
 - b. Reduces negative impact on your soil health. Many conventional farmers are working to improve the health of their most important asset: the soil they farm. The ingredients in RiseUp + BioGuard are all biologically derived.

For best performance:

- Do not plant early in cold soils. We recommend waiting for soil temperatures to reach optimum temperature before planting. As a rule of thumb, the soil temperature at 4 inches at 7 a.m. should be 50 degrees or higher.
- Avoid fields likely to have a significant cutworm infestation.

Find more information at www.alseed.com/riseupbioguard

Ordering Seed Corn coated with RiseUp + BioGuard:

- Must be ordered by December 1, 2024
- Minimum order: 8 bags (per hybrid)
- Order must be paid in full by January 15, 2025
- No returns
- Only available on these hybrids:
 - Blue River 84-95UP, 46-02P, 84-04P, 75-07P, 85-09P, 76-11P
 - Viking 42-92P, 73-97P, 46-02P, 84-04P, 85-09P