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Corteva launches Arizium biofungicide in Brazil, reports soybean yield gains in field trials

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The two-strain microbial formulation targets major crop diseases, with Brazilian trials reporting an average soybean yield increase of 8.2 bags per hectare and improved target spot control.



Corteva Agriscience has expanded its biological crop protection portfolio in Brazil with the introduction of Arizium, a preventive foliar biofungicide designed to manage diseases affecting soybean, cotton, coffee, corn, wheat, sugarcane and horticultural crops. The product combines two bacterial strains, *Bacillus subtilis* (Bs34) and *Bacillus velezensis* (BV59), to provide biological disease management through colonisation of leaf surfaces and stimulation of plant defence mechanisms.

Arizium is registered for use in Brazil and is commercially available as part of Corteva's expanding biological crop protection portfolio.

Microbial formulation targets foliar diseases

According to Corteva, Arizium works by rapidly establishing beneficial bacterial populations on plant foliage, creating conditions that can help restrict the development of disease-causing pathogens. Following application, the microorganisms form a biofilm on leaf surfaces and produce biologically active compounds, including lipopeptides and enzymes, with antifungal properties.

The company said the formulation also stimulates natural plant defence responses, providing an additional mechanism for disease management. Arizium is registered against several economically important crop diseases, including target spot caused by *Corynespora cassiicola* and grain rot associated with *Diaporthe longicolla* in soybeans.

Other registered disease targets include ramularia leaf spot in cotton, coffee leaf rust, Phaeosphaeria leaf spot in corn, early blight in tomatoes and Fusarium head blight in wheat. Its approved uses also include red stripe disease in sugarcane,

subject to Brazilian product label requirements.

Soybean trials report improvements in disease management

Corteva and its research partners evaluated Arizium during Brazil's 2025/26 growing season to assess its performance when incorporated into crop protection programmes. According to the company, soybean trials recorded an average yield increase of 8.2 bags per hectare following the inclusion of Arizium in disease management programmes.

The evaluations also showed an increase of 5.6 grams in thousand-grain weight and a 13.4 per cent improvement in target spot control. These findings are based on company-reported research conducted with Brazilian institutions. Actual performance may vary according to disease pressure, application timing, environmental conditions and the broader crop management programme.

For soybean production, Corteva recommends preventive application early in the crop cycle, generally 20 to 30 days after emergence, depending on field conditions and label guidance. The early application strategy is intended to establish biological protection before disease development becomes more pronounced.

Formulation designed for field application and storage

Arizium is supplied as a concentrated liquid suspension containing bacterial endospores. Corteva said the endospore-based formulation improves microbial stability and allows the product to be stored at room temperature without refrigeration. The formulation is intended to simplify storage, handling and incorporation into existing crop protection programmes.

Tainá Sipos, Tactical Biologicals Leader at Corteva, said the company is expanding biological management options that can complement conventional crop protection products and agronomic practices. The introduction of Arizium follows Corteva's launch of Amaná, a microbial nematicide designed to manage the root-lesion nematode *Pratylenchus brachyurus*.

While Amaná is applied in the soil to protect the root zone, Arizium provides a preventive biological treatment for above-ground crop diseases. Both products are commercially available in Brazil and form part of Corteva's strategy to integrate biological products into broader crop protection programmes. The expansion reflects increasing investment in microbial crop protection technologies as agricultural input manufacturers seek additional options for managing diseases and supporting crop productivity.