

## Seed Treatments Help Growers Win the Start and Finish Strong



**Seed treatments like fungicides and insecticides are vital to helping meet grower challenges and allowing seed to thrive. Corteva Agriscience seed scientists continually work to develop seed treatments to help farmers “win the start” of their growing seasons and produce healthy crops that will deliver outstanding yields.**

At Corteva Center for Seed Applied Technologies (CSAT) locations around the world, scientists screen potential seed treatment ingredients for characteristics or modes of action that will help farmers address challenges in their fields. Scientists evaluate hundreds of potential product components and combinations for successful plantability, singulation, cold tolerance, early vigor and stand establishment, among other characteristics.

CSAT facilities are designed to allow researchers to develop and assess treatments that will complement Corteva’s seed technologies and genetics. Each location is an all-in-one facility, with a laboratory, testing center and seed treating plant. The facilities let scientists evaluate technologies in the lab, greenhouses and the field. They test potential products on more than 60,000 plots and in the fields of farmers throughout Corteva’s testing network. This allows researchers to evaluate treatments under real-world conditions.

All CSAT-developed seed treatments undergo Corteva’s exclusive, six-step PASSER process that measures key performance factors to help ensure seed treatments will deliver value to farmers. The PASSER process also helps Corteva and farmers meet stewardship goals by reducing the amount of active ingredients farmers need to apply to fields and minimizing exposure to off-target species.

Farmers who use technologies developed by CSAT researchers are getting seed treatment products that can help them make the best use of their resources, meet farming challenges and still deliver strong yields.



# The PASSER Process

At CSAT locations, scientists follow our rigorous PASSER process to evaluate formulations for:



**Plantability:** Testing treatments using planting simulators to check seed drop and placement to maximize seed flow and planting precision.



**Application:** Refining processes to help ensure changes in seed properties, such as size, shape, hybrid or variety, as well as environmental conditions, still allow consistent product application under a variety of conditions.



**Seed Safety:** Ensuring there's no negative impact from seed treatments on seedling development and early vigor.



**Stewardship:** Minimizing potential adverse effects on people and environment by making sure products fit with responsible farming practices.



**Efficacy:** Evaluating protection performance and vigor to confirm that treatments complement seed genetics, perform in a variety of environments and work alongside other products.



**Regulatory:** Working closely with regulatory agencies to verify that products meet regulations and guidelines to allow farmers full market access.

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