



Sorghum Seed Treatment Loading Recommendations

Syngenta Seedcare offers seed load testing to allow customers to ensure proper active loading for consistent in-field performance. This service is offered across a wide variety of crops and active ingredients. One particular active ingredient, fluxofenim, the active ingredient in the sorghum herbicide safener Concep® III, is particularly challenging to analyze. Much of the challenge with the analysis for this active ingredient comes from its ability to easily translocate into the seed, even before the seed is planted. Depending on the type of analytical method used, this can impact the results returned by the lab. To remedy this, Syngenta has worked with a 3rd party analytical testing lab partner, EBDI (Eurofins Biodiagnostics, Inc.), to ensure that an effective methodology exists to be able to accurately test this active. Based on years of testing and validation, we believe the method that EBDI developed and uses generates the most accurate results.

The next step in the process to ensure proper analytical results is at the seed treating location. There are a few best practices that can help to ensure accurate results are being returned by analytical seed treatment load testing:

- Send the seed immediately for analysis via an expedited shipping method, if possible. In the case samples will not be sent for analysis immediately, freeze the sample. The frozen sample should be stored in a freezer where no food or drink will be stored as the treated seed is considered a pesticide.
- Ship frozen seed via an insulated packaging material such as these from ULINE: https://www.uline.com/BL_2157/Insulated-Shipping-Kits
- Ship frozen seed with a cold pack if needed, i.e. when sending samples after it starts to warm up outside

Please keep in mind that in addition to the above recommendations, all other accuracy-affecting processes are still of great importance such as:

- Proper pre-use product homogenization
- Correct application mixing calculations
- Accurate slurry mixing
- Treater calibrations (seed and chemical)
- Preventative maintenance on treating and handling equipment

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