



EXPERTISE



TRUST



QUALITY

SEED

# MAKING THE DIFFERENCE

ENSURE QUALITY AND SAFETY

SGS

For more than 130 years, SGS' reputation for quality services and integrity has been second to none. With a presence in nearly every single region around the globe, our experts speak the local language, understand the diversity of the local market and operate globally in a consistent, reliable and cost-effective manner.

## THE SGS ADVANTAGE

The SGS Brookings site is the world's largest independent seed testing laboratory with over 400 years of combined experience in the seed testing industry. Our staff has various certifications (including RST, RGT, CVT, CGT and Canada Grader) and is on hand to answer all of your questions.

We test more than 400 species, including: turf grasses, pasture grasses, natives, flowers, vegetables, legumes, forage crops, mixtures, oil seeds, tree and shrubs, cereals, row crops and more.

### TRADITIONAL SEED TESTING

We have the capability of testing by AOSA, ISTA & Canadian methods

- Warm germination
- Tetrazolium testing
- Cold germination / Saturated cold
- Accelerated aging
- Pure live seed
- Moisture
- Seeds per pound
- Test weight

### PCR ANALYSIS

- Event identification on leaf, seed or processed materials
- Quantification of GMO levels on seed or processed materials

### PHYSICAL PURITY

- Visual examination for pure seed, contamination by other species and inert material
- Noxious weed seed examination
- Other seed determination
- Undesirable grass seed examination
- Coating percentage
- Color sorting of RIB (Refuge in a Bag) corn

### GENETIC PURITY

- Fluorescence testing
- Purity level for single seed analysis
- Phenol testing
- Potassium hydroxide testing

- Sodium hydroxide testing
- Peroxidase activity testing
- Hilum color examination
- Hypocotyl color examinations

### TRAIT CONFIRMATION

- Herbicide bioassay and sprayover tests
- Insect resistance trait purity testing using ELISA analysis

### SEED EXPORT SERVICES

- ISTA authorized sampler training
- ISTA Orange (OIC) and Blue International (BIC) certificates

### LABORATORY RESEARCH SERVICES

- Seedling growth rate / speed of germination studies
- Flowability assessments
- Seed safety and storage trials
- Seed treatment dust off studies and trial study preparation
- Herbicide trait detection method development
- Dormancy and treatment evaluation

### GLP (GOOD LABORATORY PRACTICES)

- Confirmation of SOPs, study protocols, method development
- Pesticide residue testing on feed, food, crops and soil
- Protein expression studies
- Seed treatment application and application verification
- Study directorship

### ANALYTICAL SERVICES

- Seed treatment application verification (STAV)
- Compositional analysis (fatty acid profile, protein, oil, etc.)
- Mycotoxin analysis

## WHY SGS?

Our laboratory is ISO 9001 certified, as well as ISO 17025, OECD and



ISTA accredited. Our Brookings field and laboratory are EPA inspected for adherence to GLP standards.

We offer best-in-class customer service and IT support and provide same-day planting of samples and instant online reporting available 24/7 via our password protected website. See what our analysts see with online photographs of problem seedlings and raw sample data.

SGS delivers expert services locally to support agriculture globally.

### TECHNOLOGY AND INNOVATION

Innovation is at the heart of our business. New technologies deliver knowledge, insight, transparency and efficiency for our customers.

**SGS Brookings:** Our purpose-built agriculture and food laboratory has extensive testing capabilities, the latest in automation and analysis equipment, seven germination rooms, dedicated areas for high-risk testing, and a centralized sample receiving area.

### SGS BENEFITS

- ✓ ISO 17025 Accredited, ISO 9001 Certified
- 🕒 Rapid turnaround time
- ⚙️ Customized service

### CONTACT US

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# SGS

WHEN YOU NEED TO BE SURE