



## **ANALYTICAL SERVICES**

# **GMO & TRANSGENIC EVENT IDENTIFICATION**

SGS is the world leader in inspection, verification, testing and certification. The company is recognized as the global benchmark for quality and integrity. SGS operates a network of more than 1,000 offices and laboratories worldwide. The testing laboratories' scope include GMO (genetically modified organisms) testing of plants, seed, grain, and processed food products. Our trained scientists hold Master degrees in Microbiology and Agronomy and have been involved in the development and validation of protocols used throughout the industry for GMO detection.

## ACCURATE AND RELIABLE TESTING

The adventitious presence (AP) of transgenic events in seeds, grains and processed foods has been a concern for many in the production agriculture and food supply chain. Determining the extent of GMO (Genetically Modified Organism) contamination in the food supply chain requires a representative sample, knowledge of the process and use of the product, and meticulous sample handling and testing. SGS-North America (SGS-NA) provides accurate and reliable testing services for commercially available transgenic events.

We use quantitative PCR (Polymerase Chain Reaction) based DNA detection technology to determine the amount of GMO present in samples. With the appropriate primer and probe combination, quantitative real time PCR can detect precise amounts of GMO in samples. Qualitative PCR and ELISA (Enzyme Linked Immunosorbant Assay) protein detection methods can also be used to determine the presence or absence of the transgenic events.

### GLOBAL MARKETS

SGS helps companies sustain and expand their global markets by providing accurate and reliable DNA testing for GMOs in grain and food products.

We have developed DNA extraction procedures for a variety of sample types including seed, feed and finished food products. SGS-NA has established a GMO analysis system in highly processed food products. The laboratories provide protein based ELISA tests to verify the presence of novel proteins encoded by specific inserted DNA sequences.

### EXPERT STAFF

Our clients are seeking GMO testing in order to meet specific regulatory or market driven requirements. Our team of scientific experts can meet trade, US and International GMO testing and labeling requirements.

SGS-NA DNA testing laboratories have been involved with PCR testing of transgenic seed since 2000. Superior performance has been achieved on USDA GIPSA and International Seed Testing Association GMO proficiency testing. Integrity, reliability, and accurate reporting of data, along with years of experience – you can count on SGS.

### SERVICES PROVIDED:

- Quantitative GMO determination
- Qualitative GMO testing
- GMO events identification

### SEEDS/PRODUCTS TESTED

- Canola, canola meal
- Corn, CGM, DDGS
- Cotton, cotton meal

- Flax, flax seed meal, flour
- Potato flakes
- Rice
- Soybean, SBOM
- Vegetable seeds
- Wheat, flour

We offer a quick data turnaround time and competitive prices with additional volume discount. Online reporting of analysis is available. Contact us for more information and special pricing to the address below.

### CONTACT DETAILS

#### SGS S.A.

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**SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY**

**WHEN YOU NEED TO BE SURE**

**SGS**