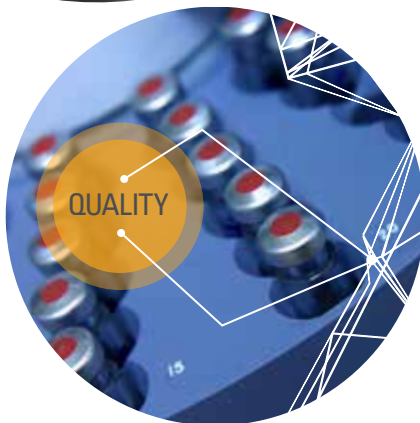




EXPERTISE



TRUST



QUALITY

PESTICIDE RESIDUE & CONTAMINANTS

# MAKING THE DIFFERENCE

VERIFYING SAFETY AND QUALITY OF YOUR PRODUCTS

**SGS**



EXCELLENCE

With cutting edge technology and the latest testing methods, SGS laboratories have the equipment and experience to service your complete food and feed testing needs. Our trained scientists and technicians hold Ph.D. and Master degrees in chemistry and microbiology, as well as years of laboratory experience.

**ACCURATE & RELIABLE TESTING**

Pesticides are a vital part of the agriculture industry, assisting growers in meeting world food demands. However, due to negative impacts on human and animal health as well as ecological effects of pesticides and contaminants, it is not desirable to find residues of those chemicals pesticides in food or feed after it is harvested and headed for human or animal consumption.

SGS utilizes specialized equipment including LC-MSMS (Liquid Chromatography with Tandem Mass Spectrometry) and GC-MS (Gas Chromatography with Mass Spectrometry) to screen for more than 600 pesticides. These instruments allow us to identify the pesticides present at levels 10 to 100 times lower than regulated limits.

**GLOBAL MARKETS**

Our laboratory specializes in measuring pesticides in a variety of agricultural matrices including grains such as corn, canola, wheat and soybeans; feed ingredients including DDGS (Dried Distiller Grains with Solubles), corn gluten meal, soybean meal, and canola meal; as well as fruits, vegetables, teas, herbs and spices, grains, oilseeds and nuts. Regulations have been set by many countries on the maximum residue levels (MRLs) allowed for pesticides in foods, food products and feeds. Typical residue limits range from 0.01-0.5 mg/kg. Our scientists can offer guidance on testing your products to ensure compliance with United States FDA pesticide tolerances, Codex

Alimentarius MRLs, Japanese Positive List Pesticides, and other pesticide regulations.

**PESTICIDE RESIDUES**

SGS's pesticide residue services include testing for insecticides, herbicides, and fungicides in the following classes:

- Acetamides
- Carbamates
- Dicarboximides
- Imidazolinones
- Nicotinoids
- Organochlorines
- Organonitrogens
- Organophosphates
- Phenoxy acid herbicides
- Phenylurea herbicides
- Pyrethroids
- Triazines
- Triazoles

**CONTAMINANTS**

Melamine, mycotoxins, veterinary drug residues such as antibiotics, and hormones may be concentrated in products after processing. These contaminants may harm animals and humans in concentrated levels. Testing of specific contaminants need to be identified for analysis. These contaminants may be determined with use of the LC MSMS, GC MS, or PCR (Polymerase Chain Reaction) technologies.

SGS offers many more contaminant tests to suit your needs. Please contact us for more information regarding tests not listed here.

**TECHNOLOGY & INNOVATION**

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

**SGS Brookings**

ISO 9001 certified, and accredited to ISTA and ISO 17025, our purpose-built 68,000 sq. ft. laboratory has extensive agriculture and food testing capabilities and the latest in automation, sample prep and analysis equipment (including 6500+ LC/MSMS). Our seven germination rooms with temperature monitoring ensure complete traceability. Dedicated areas for sensitive testing eliminate cross-contamination risks, and a centralized sample receiving facility ensures fast processing.

**SGS BENEFITS**

- 🌐 Global Network
- 🔧 Technical Competence
- 🎓 ISO 17025 Accredited and GLP Compliant

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