

Testing services – Chemistry

Food analysis: Genetically Modified Organisms (GMO)



At the boundary between the agri-food industry and biological engineering, GMOs, or “genetically modified organisms”, represent a major societal and industrial stake.

Confronted with the issue of genetically modified organisms (GMOs), starting in the early 1990s, the European Union put in place a regulatory framework concerning marketing authorisation for GMOs based on the criteria set forth in Directive 2001/18/EC of the European Parliament and of the Council on the “Deliberate Release of Genetically Modified Organisms” into the environment.

This directive is supplemented by two regulations:

- Regulation 1830/2003/CE on traceability of GMOs
- Regulation 1829/2003/CE on labeling

These two texts require the food and feed sector to manage the traceability of items of GMO origin throughout the entire production chain and to define the labeling requirements for products containing them.

Silliker Food GMO Testing Services

With years of expertise, Silliker Italy performs analyses using real-time PCR technology to detect the presence of GMOs in foods. Both the qualitative test and the quantitative test are accredited on a wide range of matrices.

Accredited matrixes:

- ▷ Additives
- ▷ Bakery
- ▷ Cereals and by products
- ▷ Chocolate
- ▷ Confectionery
- ▷ Pet food
- ▷ Deli products
- ▷ Meat and by products
- ▷ Vegetable preserves
- ▷ Rice
- ▷ Canola
- ▷ Flax and by products
- ▷ Potato

Qualitative test	Technique	Description	LOD
Soy Roundup Ready™ (RR soy)	PCR	Determination of DNA	0.01%
Corn Maximizer™ Bt176			
Corn Bt11			
Corn Mon810			
Corn Liberty Link T25			
Corn RoundUp Ready GA21			
Corn RoundUp Ready NK603			
Corn MIR 604			
Corn MON 863			
Rice BT63			
Rice LL62/601			
Canola			
Flax seed FP967			
Amflora potato (EH-92)			

Quantitative test	Technique	Description	LOD
Soy Roundup Ready™ (RR soy)	PCR	Determination of DNA	0.007%
Corn Maximizer™ Bt176			
Corn Bt11			
Corn Mon810			
Corn Liberty Link T25			
Corn RoundUp Ready GA21			
Corn RoundUp Ready NK603			
Corn MIR 604			
Corn MON 863			

For further information contact Megan Smith on +27 21 683 8436 or email Megan at megan@swift.co.za with your specific queries and for shipment of your samples to our Global Network.