

# Varietal ID

Tests that protect importers and exporters  
by identifying approved and unapproved GM varieties

- ?? **Identify GM varieties unapproved in specific regions**
- ?? **Screen for corn and other GM crops**
- ?? **Use precise, reliable, and cost-effective methods**
- ?? **Meet your unique needs with flexible test options**
- ?? **Help to prevent rejected shipments, product seizures, and brand damage**

The GMO issue poses many challenges to international trade. None is more serious than the “zero tolerance” regulations in Europe and Japan, which ban certain types of GM (genetically modified) crop varieties.

Problems arise because GM crops approved for commercialization by the United States government, and grown in the U.S. and elsewhere, include varieties that are not approved in Europe or Japan. As a result, if your product is tested in a country with such a ban and found to contain even a trace of an unapproved GM variety, the shipment can be refused—or the product seized and destroyed. Companies may even face fines and criminal penalties.

To help protect you from these risks, Genetic ID, Inc., has developed unique and proprietary Varietal ID<sup>SM</sup> tests. These tests offer precise, reliable, and cost-effective methods to screen for GM varieties that are prohibited in a particular country or region.

Because issues of approval most commonly arise with corn (maize), Genetic ID has developed Varietal ID tests to identify GM corn varieties. However, we can design Varietal ID tests to detect other GM crops to meet your needs.

Compared to other GMO detection tests, Varietal ID tests are considerably more delicate, complex, and time-consuming; they require a high level of knowledge and expertise. Varietal ID must identify the specific unapproved varieties in a sample. To do this, more complete knowledge must be available about the nature of each distinct GMO construct, and primer sets must be available to identify each construct. For this reason, technicians use multiple primer sets and multiple testing runs.

## Two types of Varietal ID

Genetic ID offers two fundamental types of Varietal ID for corn.

- ?? **Worldwide Varietal ID:** The Worldwide test can detect *all* the GM varieties of corn that have been approved by the U. S. government. Many of these varieties have not been approved for sale in other regions. This test is particularly useful when a grower or seller is not sure which country the product is going to and desires the widest possible market. This test can also be used to rule out particular markets (i.e., if an unapproved variety in one particular nation or region is identified in the sample).
- ?? **Region-Specific Varietal ID:** The Region-Specific test can detect those GM varieties that have been approved in the U.S. but are unapproved *in one specific nation or region*. Using this more economical test, buyers and sellers can determine if a product is suitable for a particular target market.



THE GLOBAL LEADER IN GMO IDENTIFICATION

P.O. Box 1810  
Fairfield, Iowa 52556 USA

Toll free  
888-229-2011

Tel +1.641.472.9979 [info@genetic-id.com](mailto:info@genetic-id.com)  
Fax +1.641.472.9198 [www.genetic-id.com](http://www.genetic-id.com)

## Two options for each type

Both Worldwide Varietal ID and Region-Specific Varietal ID are available in two options:

1. **All Varieties:** The Worldwide All Varieties test identifies *all* GM corn varieties that have been approved in the U.S., irrespective of whether they have been approved elsewhere. This includes those varieties that have been commercialized for farming and widely distributed, as well as those that have been approved in the U.S. but have not been widely distributed. The Region-Specific All Varieties test identifies all of the unapproved GM corn varieties in a region.

These All Varieties tests provide maximum coverage, even screening for trace amounts of non-commercialized varieties that may have found their way into the grain supply.

2. **Commercialized Varieties Only:** When you choose this option, both the Worldwide and the Region-Specific tests limit their detection to only those GM varieties that have been widely grown commercially. Although not as comprehensive as the All Varieties option, the Commercialized Varieties Only option offers a more economical test for the varieties most likely to be present.

## GMO screening saves you money

The first step in all Varietal ID tests is to determine if there are any GMOs in your sample. If the sample does contain GMOs, the test you ordered will be run to completion. If no GMOs are detected in your sample, however, the Varietal portion of the test will not be run, and you will only be billed for the GMO detection test—saving you time and money.

**Varietal ID tests help you comply  
with GMO regulations worldwide  
and are an essential component of  
your risk management program.**



THE GLOBAL LEADER IN GMO IDENTIFICATION

COPYRIGHT © 2000 BY GENETIC ID, INC.