

## GMO Rapid Testing: ELISA Kits and Lateral Flow Devices

Cultivation of genetically modified (GM) crops has increased significantly around the globe over the years. This increase in production has been combined with a complex and ever evolving global regulatory approval process for GM products. Therefore, testing of food and agricultural products for genetically modified content is required to facilitate the international trade. The GMO analysis can be performed either in the field or in a testing laboratory.

### **GMO Detection with ELISA and LFD Kits**

Gold Standard Diagnostics offers an extensive portfolio of GMO testing kits in ELISA and rapid test formats. Accurate and reliable solutions are available for the analysis of key genetically modified crops, such as cotton, soybean, corn and canola.

### **Key Benefits of Lateral Flow Devices**

- Rapid on-site testing
- Reliable result with no lab equipment
- User friendly: no training needed, easy to use
- Qualitative and quantitative results

### **Key Benefits of ELISA Kits**

- Matching pair of monoclonal antibodies
- Standardized test procedure for qualitative results
- Accurate and reliable results
- Unmatched sensitivity and specificity for the assayed target
- Wide product range for multiple matrices
- Highly stable, robust and reproducible test kit
- Easy and short assay time and cost-effective test method

### **RapidScan ST5-W Lateral Flow Assay Reader**

RapidScan ST5-W Lateral Flow Assay Reader is an accurate, easy to use and highly flexible imaging platform used for lateral flow assay analysis. The instrument was designed specifically for field and in-process testing applications that require qualitative and quantitative test results.

# Gold Standard Diagnostics GMO Testing ELISA Kits and Lateral Flow Devices



## ELISA Kits: Individual Leaf/Seed Testing Kits

The ELISA kits are intended to be used for the qualitative and quantitative detection of different proteins (GMOs) in individual leaf and seed.

Article no.	Product Name	Product Description	No. of ELISA Plates/Kit
AID 004	Cry1F ELISA Kit	Cotton/Corn Individual Leaf, Seed	1
AID 006	Chinese Fusion ELISA Kit	Cotton Individual Leaf, Seed	1
AID 007	Cry1Ac/Ab ELISA Kit	Cotton/Corn/Soybean Individual Leaf, Seed	1
AID 008	Cry2A ELISA Kit	Cotton/Corn/Soybean Individual Leaf, Seed	1
AID 011	CP4 EPSPS (RR) ELISA Kit	Cotton/Corn/Soybean/Canola Individual Leaf, Seed	1
AID 016	Barstar ELISA Kit	Pollen from Canola/Mustard	1
AID 017	Cry1Ac/Cry2A Combined ELISA Kit	Cotton Individual Leaf, Seed	1
AID 018	PAT/bar ELISA Kit	Cotton/Corn/Canola/Soybean Individual Leaf, Seed	1
AID 019	Barnase ELISA Kit	Pollen from Canola/Mustard	1
AID 020	Cry1EC ELISA Kit	Cotton/Castor Individual Leaf, Seed	1
AID 023	Vip3A ELISA Kit	Cotton/Corn Individual Leaf, Seed	1
AID 027	PAT/pat ELISA Kit	Cotton/Corn/Canola/Soybean Individual Leaf, Seed	1
AID 052	Modified Cry3A ELISA Kit	Corn Individual Leaf, Seed	1
AID 053	Cry3Bb ELISA Kit	Corn Individual Leaf, Seed	1
AID 101F	Cry1F Quantitative (QT) ELISA Kit	Cotton/Corn Individual Leaf, Seed	1





## Lateral Flow Devices (Qualitative): Bulk Seed/Grain/Kernel Testing Kits

Lateral Flow tests provide fast and on-site solutions for the qualitative detection of different protein (GMOs). Qualitative LFDs are available in 2 different formats – Bulk Seed and Individual Seed/Leaf Testing.

Article no.	Product Name	Product Description	No. of Strips/ Kit
AID 040	CP4 EPSPS (RR) LFS Kit	Soybean/Canola Bulk Seeds (LOD: 0.1%)	100
AID 043	CP4 EPSPS (RR) LFS Kit	Cotton/Corn Bulk Seeds (LOD: 0.1%)	100
AID 044	Cry1Ac/Ab LFS Kit	Cotton/Corn Bulk Seeds (LOD: 0.25% for Cotton & 0.8% for Corn)	100
AID 046	Cry2A LFS Kit	Cotton/Corn Bulk Seeds (LOD: 0.25% for Cotton & 1% for Corn)	100
AID 048	Vip3A LFS Kit	Cotton/Corn Bulk Seeds (LOD: 0.25%)	100
AID 050	Cry1F LFS Kit	Cotton/Corn Bulk Seeds (LOD: 0.5%)	100
AID 058	eCry3A and Cry3Bb Combined LFS Kit	Corn Bulk Seeds (LOD: 0.5%)	100
AID 060	Cry3Bb LFS Kit	Corn Bulk Seeds (LOD: 0.2%)	100



## Lateral Flow Devices (Qualitative): Individual Leaf and Seed Testing Kits

Article no.	Product Name	Product Description	No. of Strips/ Kit
AID 032	Cry1Ac/Ab LFS Kit	Cotton/Corn Individual Leaf, Seed	100
AID 033	Cry1F LFS Kit	Cotton/Corn Individual Leaf, Seed	100
AID 026	Cry2A LFS Kit	Cotton/Corn Individual Leaf, Seed	100
AID 031	Vip3A LFS Kit	Cotton/Corn Individual Leaf, Seed	100
AID 025	CP4 EPSPS (RR) LFS Kit	Cotton/Corn/Soybean/Canola Individual Leaf, Seed	100
AID 029	PAT/Pat LFS Kit	Cotton/Corn/Canola/Soybean Individual Leaf, Seed	100
AID 038	Cry1Ac/Cry2A LFS Kit	Cotton Individual Leaf, Seed	100
AID 036	Cry1Ab/CP4 EPSPS (RR) LFS Kit	Corn Individual Leaf, Seed	100
AID 035	Cry1Ac/Cry2A/CP4EPSPS (RR) LFS Kit	Cotton Individual Leaf, Seed	100
AID 049	PAT/bar LFS Kit	Canola Individual Leaf, Seed	100
AID 057	Modified Cry3A LFS Kit	Corn Individual Leaf, Seed	100
AID 054	Cry3Bb LFS Kit	Corn Individual Leaf, Seed	100
AID MP01	Micro Pestles	Micro Pestles for Tissue Homogenizer for LFS Kit	100



## Lateral Flow Devices (Quantitative): Bulk Seed/Grain/Kernel Testing Kits

Our most requested kits for GMO rapid testing are available on the RapidScan ST5-W reader for quantitative screening of GMOs:

Article no.	Product Name	Product Description	No. of Strips/Kit
EAID 101	CP4 EPSPS (RR) Quantitative LFS Kit - Soybean & Canola	LFS for CP4 EPSPS Testing in Bulk Grain Soybean & Canola using RapidScan (Sensitivity: 0.05% for Soybean & 0.1% for Canola)	100
EAID 102	CP4 EPSPS (RR) Quantitative LFS Kit - Corn	LFS for CP4 EPSPS Testing in Bulk Grain Corn using RapidScan (Sensitivity: 0.1% for Corn)	100
EAID 103	Vip3A Quantitative LFS Kit - Corn	LFS for Vip3A Testing in Bulk Grain Corn using RapidScan (Sensitivity: 0.2% for Corn)	100
EAID 104	Cry3Bb Quantitative LFS Kit - Corn	LFS for Cry3Bb Testing in Bulk Grain Corn using RapidScan (Sensitivity: 0.5% for Corn)	100



## RapidScan ST5-W Lateral Flow Assay Reader

### Key Benefits

- User friendly: no training needed, easy to use
- Quantitative results
- Portable for field testing
- Flexible: multiple target analysis
- Data storage capacity of up to 5000 test results
- Report exporting capability

Article no.	Product Name	Product Description
LFRSCAN002	RapidScan ST5-W Lateral Flow Assay Reader	Portable instrument specifically designed for field and in-process testing applications requiring qualitative to semi-quantitative test results. Compatible with Gold Standard Diagnostics' GMO, Allergen, Glyphosate and Algal Toxins lateral flow tests.
LFA0060001	LFD Reader Adapter for GMO strips	Adapter for GMO LFDs, for use with RapidScan ST5-W LFD Reader

