



GENETICALLY MODIFIED ORGANISM

AgraStrip®

GMO Trait



Romer Labs offers a wide range of GMO test strips for the qualitative and quantitative detection of GMO proteins in bulk grain, single seed and leaf samples for various commodities.

How the test works

The AgraStrip® test kits are ready-to-use lateral flow devices for on-site testing. If the sample is genetically modified, the antibody will bind to the expressed protein during incubation, allowing a color to develop. The tests are available in a qualitative (yes/no answer) or in a quantitative format, depending on the kit.

Kit Contents

Each kit includes either 100 single strips or 20 combs plus accessory materials.

PRODUCT FEATURES

- Suitable for on-site testing
- Fast results - 5 to 10 minutes incubation time
- LOQs as low as 0.1% GMO in bulk grains
- Result quantification possible with AgraVision™ reader

Product	Item Number	Trait	Commodity
AgraStrip® RUR- HS Bulk Grain ^{1,2}	10001311	CP4 EPSPS	Corn, Canola, Alfalfa
AgraStrip® RUR Bulk Grain ^{1,2}	10001312	CP4 EPSPS	Soy, Sugarbeet
AgraStrip® RUR Seed and Leaf ¹	10001313	CP4 EPSPS	Soy, Sugarbeet, Cotton, Canola, Alfalfa
AgraStrip® Cry1F/Cry34Ab Bulk Grain ¹	10001314	Bt-Cry1F, Bt-Cry34Ab	Corn
AgraStrip® CSPB Bulk Seed ¹	10001315	CspB	Corn
AgraStrip® CSPB Seed and Leaf ¹	10001316	CspB	Corn
AgraStrip® Cry1Ab Bulk Grain ¹	10001317	Bt-Cry1Ab	Corn
AgraStrip® Cry1Ab Seed and Leaf ¹	10001318	Bt- Cry1Ab	Corn, Cotton
AgraStrip® Cry1F Seed and Leaf ¹	10001319	Bt-Cry1F	Corn, Cotton
AgraStrip® Cry3Bb Bulk Grain ^{1,2}	10001322	Bt-Cry3Bb	Corn
AgraStrip® Cry3Bb Seed and Leaf ¹	10001323	Bt-Cry3Bb	Corn
AgraStrip® LL Bulk Grain ^{1,2}	10001324	PAT	Canola, Corn, Sugarbeet, Soy
AgraStrip® Cry1Ab/LL Bulk Grain Combo ¹	10001325	Bt-Cry1Ab, PAT	Corn
AgraStrip® LL Seed and Leaf ¹	10001326	PAT	Corn, Canola, Sugarbeet
AgraStrip® LL Bulk Grain for Rice ¹	10001327	PAT	Rice

¹ qualitative ² quantitative



AgraStrip® Cry1F Bulk Grain (water extract) ^{1,2}	10001329	Bt-Cry1F	Corn
AgraStrip® Triple Trait Seed and Leaf ¹	10001330	CP4 EPSPS, Bt-Cry1Ab, Bt-Cry-1Ac, Bt-Cry1A.105, Bt-Cry3Bb	Corn
AgraStrip® Cry34Ab1 Bulk Grain ^{1,2}	10001331	Bt-Cry34Ab1	Corn
AgraStrip® PMI Seed & Leaf ¹	10001332	PMI	Corn, Wheat
AgraStrip® PMI ¹	10001333	PMI	Corn
AgraStrip® Cry1Ac Seed and Leaf ¹	10001334	Bt-Cry1Ac	Corn, Cotton, Soy, Rice
AgraStrip® Cry1Ac Bulk Grain ^{1,2}	10001335	Bt-Cry1Ac	Corn, Cotton
AgraStrip® DMO Bulk Grain ^{1,2}	10001336	DMO	Soy and Cotton
AgraStrip® DMO Seed and Leaf ¹	10001337	DMO	Soy and Cotton
AgraStrip® Cry2Ab ¹	10001338	Bt-Cry2Ab	Corn, Cotton
AgraStrip® EPSPS ¹	10001339	mEPSPS	Corn
AgraStrip® EPSPS Seed and Leaf ¹	10001340	mEPSPS	Corn, Cotton
AgraStrip® Vip Seed and Leaf ¹	10001341	Vip3A	Corn, Cotton
AgraStrip® Vip Bulk Grain ^{1,2}	10001342	Vip3A	Corn
AgraStrip® Cry2Ab Seed and Leaf ¹	10001343	Bt-Cry2Ab	Corn, Cotton, Soy
AgraStrip® eCry3.1Ab Bulk Grain ¹	10001344	eCry3.1Ab	Corn
AgraStrip® eCry3.1Ab Seed and Leaf ¹	10001345	eCry3.1Ab	Corn
AgraStrip® Cry1Ac-S Bulk Grain ^{1,2}	10001346	Bt-Cry1Ac	Soy
AgraStrip® RUR Toasted Meal ¹	10001462	CP4 EPSPS	Toasted Soy
AgraStrip® Triple Trait Bulk Grain ¹	10001487	CP4 EPSPS, Bt-Cry1Ab, Bt-Cry-1Ac, Bt-Cry1A.105, Bt-Cry3Bb	Corn
Comb Strips			
AgraStrip® Corn Comb w/VIP3A ¹	10001490	CP4 EPSPS, PAT, Bt-Cry1Ab, Bt-Cry1Ac, Bt-Cry1A.105, Bt-Cry3Bb1, Bt-Cry1F, Bt-Cry34Ab1, VIP3A	Corn
AgraStrip® Quantitative Low-LOD Corn Comb Bulk Grain ²	10001491	CP4 EPSPS, PAT, Vip3A, Bt-Cry1Ac, Bt-Cry3Bb, Bt-Cry1F, Bt-Cry34Ab1	Corn
AgraStrip® Quantitative Corn Comb Bulk Grain ²	10001492	CP4 EPSPS, PAT, Vip3A, Bt-Cry1Ac, Bt-Cry3Bb, Bt-Cry1F, Bt-Cry34Ab1	Corn
AgraStrip® Quantitative Soy Comb Bulk Grain ^{1,2}	10001493	CP4 EPSPS, PAT	Soy
AgraStrip® Cottonseed Screening Comb Bulk Grain ¹	10006121	CP4 EPSPS, Bt-Cry1Ab, Bt-Cry1Ac, Bt-Cry1A.105, PAT	Cotton
AgraStrip® Corn Screening Comb Bulk Grain ¹	10006122	CP4 EPSPS, Bt-Cry1Ab, Bt-Cry-1Ac, Bt-Cry1A.105, PAT, PMI	Corn

¹ qualitative ² quantitative



1 Collect a representative sample of seeds and grind them to a powder.



2 Place a subsample into a suitable container or extract the entire original grind. Add buffer or water for extraction.*



3 Close the bag, shake for 15 seconds and allow the extract to settle. Transfer the extract into a conical microtube.



4 Insert the strip into the conical microtube and incubate it.* If quantitatively measured, read the strip in the AgraVision™ reader.

*see package insert