



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

<sup>1</sup> qualitative    <sup>2</sup> quantitative



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

<sup>1</sup> qualitative    <sup>2</sup> 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