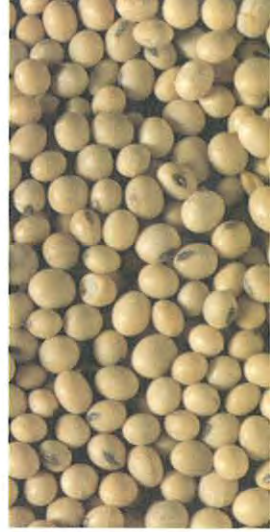




Part of SDI's family of food safety products



TraitChek™

Crop & Grain Testing

Bt1 Test Strips...

Screening Test Kit for Bt (Cry1Ab) Corn...

- Field analysis of genetically enhanced (GMO) corn grain.
- Facilitates segregation of GMO products at elevators and terminals.
- Simple lateral flow format provides results in 5-10 minutes with a water extraction.
- "Yes/No" results at threshold screening levels can be varied based on specific customer needs.
- Integrates into existing sampling and grading programs at elevators.
- Available in 100-test and 10-test kits.



Strategic Diagnostics Inc.
www.sdix.com

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Product Description

The Trait[✓] Bt1 Lateral Flow Test Kit is used to quickly and accurately detect the Cry1Ab protein produced by a gene, which has been incorporated into several brands of insect-tolerant corn including YieldGard brands from Monsanto and Syngenta. The test kit will provide a threshold determination for the presence of Cry1Ab in ground corn. The Trait[✓] Bt1 Lateral Flow Test Strip can be used in conjunction with the Trait[✓] corn comb to screen for multiple GMO traits in corn. When combined with a statistical sampling plan, test results can provide a level of confidence that a bulk grain sample contains Cry1Ab grain above or below certain percentages.

Interpretation

The following tables provide information at five confidence levels with the use of multiple samples of 125 kernels each. The table provides the maximum percent GM levels that would be expected in the sample if all test-samples provide negative results.

# of Samples of 125 Seeds Each	Percent GM using Sub-Sample Sizes of 125 Seeds at Five Different Confidence Levels				
	50%	75%	90%	95%	99%
1	0.56	1.1	1.9	2.4	3.7
2	0.28	0.56	1.0	1.2	1.9
3	0.19	0.37	0.65	0.80	1.3
4	0.14	0.28	0.46	0.60	0.93
5	0.11	0.23	0.37	0.48	0.75
6	0.093	0.19	0.31	0.40	0.65
7	0.080	0.16	0.27	0.34	0.55
8	0.070	0.14	0.23	0.30	0.48

Kit Contents

The 100-test kit (P/N 7000025)

• Trait [✓] Bt1 Test Strips	100
• Sample Tubes	100
• Transfer Pipettes	100
• User's Guide	1

Materials Required

- Laboratory grade blender (6000022)
- Blender adapter for jars (6000021)
- 4 oz. Mason jars (6000033)
- Graduated cylinder (6000036)
- Carboy, 8-liter (6000031)
- Squeeze bottle (1034500/1034800)
- Blender shield (6000037)

Procedure

1. Weigh sub-samples from each truck to container
2. Place each sub-sample in a 4-oz. jar.
3. Attach the jar adapter and cutting blades.
4. Place the jar onto the blender, place a shield over the jar and grind the sub-sample for 10-15 sec.
5. Remove the adapter and cutting blades
6. Add water, place a lid on the jar and shake until all the ground kernels are well wetted.
7. Use the transfer pipette to transfer approx. 0.5 mL sample to sample tube.
8. Add a Trait[✓] Bt1 Test Strip into the sample tube.
9. Wait for the control line to develop (5-10 minutes)
10. Interpret and record results.



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