

www.envirologix.com/support/DNAble

Molecular Detection Kits for **GMO** Soy QuickGuide

For Technical Support Call (207) 797-0300 Press 2

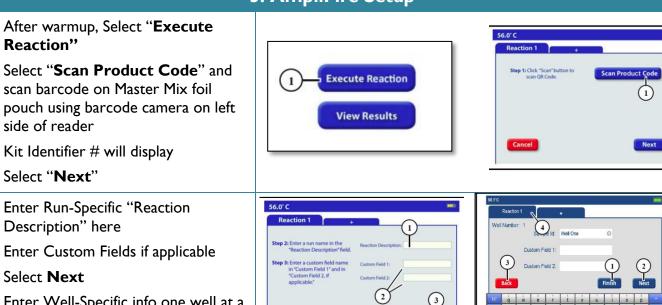
ENVIROLOGIX Doc. M210-1215

I. Prepare Sample using Sample Extraction Set 5

- 1. Pre-heat dry block to 95°C for at least 30 minutes
- 2. Grind a minimum of 200 soybeans (weight to be determined by average seed weight) in an Oster blender for 20 seconds; repeat 2 additional times for a total of three grinds
- 3. Shake MB9 bottle for 5 seconds to distribute particulate matter; add 600 µL of MB9 to a 2 mL clear tube supplied with Extraction Set 5
- 4. Using a clean grain scoop, add two unpacked level scoops of ground sample to clear tube and cap tightly; flick tube to ensure complete suspension of sample
- 5. Heat tube at 95°C for 6 minutes (±30 seconds)
- 6. Remove tube and vortex for 5 seconds
- 7. Centrifuge sample at $10,000 \times g$ for 3 minutes (±30 seconds)
- 8. Add 100 µL of D4 buffer to a 1.5 mL blue tube supplied with Extraction Set
- 9. Add 100 μ L of centrifuged sample to blue tube, avoiding particulates, and vortex to mix
- 10. 25 μ L of this sample will be used in the assay

2. Prepare for Testing

- Turn on AmpliFire Unit and allow to warm to 56°C ١.
- 2. **Ensure** EnviroLogix GMO kit is at room temperature



- Enter Well-Specific info one well at a time or "Finish" to skip
- Select Start and AmpliFire will be ready to read strip tubes

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Start

d

Cancel

Next

3. AmpliFire Setup

4. DNAble Assay Procedure

- Remove green Reaction Buffer strip tubes from the kit. Flick down prior to uncapping so that buffer is at bottom of tubes. Mark the left end for orientation.
- Transfer **25 µL of each sample** to the green Reaction Buffer vials. Use a fresh pipette tip for each transfer.
- **Recap tubes** and tap down or centrifuge to ensure all liquid is at the bottom of the tube
 - Using multi-channel pipette, transfer
 50 μL to clear Master Mix tubes.
 - Do **not** mix within the clear tube.
 - Recap with Flat Caps (seal completely!!).
 - Mark left side of cap for orientation.
 - Flick and tap down several times to remove air bubbles. **No bubbles** in bottom of tubes!
- Place capped and inspected clear strip tube in instrument and immediately press "OK"
- After 15 minutes, results will be displayed as Not Detected (-) or Positive (+).
- After assay is complete, **remove run reaction strip tubes** discard in opened foil pouch. **Never open a completed reaction tube!**
- Export results from the Home Page (View Results/Export to USB)
- Clean up work area.

Materials Needed:

- Oster blender
- Precision pipettes to deliver 25-1000 μL (p-100 & p-1000)
- Pipette tips
- Dry heat block capable of 95±1°C (with insert capable of holding 2 mL tubes)
- Vortex
- Microcentrifuge capable of 10,000 x g
- Timer



