



Reveal[®] for CP4 (Roundup Ready)

Product Number: 8005

Soybean Sample Preparation and Extraction

1. Determine the average bean weight of the soybeans to be tested by counting out 100 beans, weighing all 100 together in one container to the nearest 0.01 g, and dividing the total by 100.
2. To achieve 0.1% sensitivity with this test, multiply the average bean weight determined in step 1 by 1000 to determine the sample size. (Example: An average bean weight of 0.095 x 1000 = sample size of 95 g.)
3. Weigh out the soybean sample size determined in step 2 and deposit it into a 32 oz jar. Attach the blender blade assembly and blend on high speed for 30–45 seconds.
4. Remove the blender blade and add 4 times the sample size of water to the jar. (Example: 95 g of sample x 4 = 380 mL of water). Cap and shake for 30–45 seconds to ensure all the blended soybean has been wetted.
5. Let the soybean and water mixture settle, use the liquid from the top of the jar as the test sample.
Note: It's highly recommended to centrifuge soy samples by pipetting 1 mL of the sample into a 2.0 mL micro-centrifuge tube, and centrifuge for 1 minute.

Corn Sample Preparation and Extraction

1. Weigh 250 g ± 10 g of a whole corn sample to be tested and deposit it into a 32 oz jar. Attach blender blade assembly and blend on high speed for 30–45 seconds.
2. Remove the blender blade and add 400 ± 20 mL of water to the jar. Cap and shake for 30–45 seconds to ensure all of the corn has been wetted.
3. Let the corn and water mixture settle, and use the liquid from the top of the jar as the test sample.

Test Procedure

1. Remove the appropriate number of sample tubes and place them in the tube rack.
Important: You must use the supplied sample tubes for the test procedure for proper sample flow.
2. Using a new transfer pipette for each sample, transfer approximately 0.5 mL of extract to a sample tube.
3. Place a new CP4 strip with the sample end down into the sample tube.
4. Allow the strip to develop for 10 minutes and read results.

Result Interpretation

Positive Result

- If a line forms in the test zone and another line forms in the control zone within 10 minutes (2 lines total), the sample's positive for CP4 at ≥ 0.1% for soybeans, or ≥ 0.125% for corn.
- A positive sample may be determined as soon as 2 lines are visible on the strip.
- If there's no line in the control zone, the test is invalid and the sample should be retested with another strip.

Negative Result

- If after 10 minutes there's no visible line in the test zone, but a visible line in the control zone, the sample is negative for CP4
- If there's no line in the control zone, the test is invalid and the sample should be retested with another strip.

Please refer to kit insert for more detailed instructions, including sample preparation and extraction

