Food Sample Preparation for Glyphosate Testing

**HONEY**
1. Add distilled water (DO NOT USE TAP WATER) to the 50 mL mark of Vial #1.
2. Pour honey into the provided disposable spoon, fill until level at the top, scraping off excess if necessary.
3. Place the spoon with the honey sample into Vial #1.
4. Cap and shake (with the spoon inside) until the honey sample has completely dissolved.
5. Test prepared diluted sample as shown in the Sample Testing Instructions on the next page.

**BEER**
1. Add distilled water (DO NOT USE TAP WATER) to the 40 mL mark of vial #1.
2. Add beer to the 40 mL mark of vial #1.
3. Cap and shake for 10 seconds.
4. Unscrew the cap to vent carbonation and then repeat step 3. Repeat step 4 two (2) more times.
5. Test prepared diluted sample as shown in the Sample Testing Instructions on the next page.

**CEREAL, INFANT CEREAL, WHOLE OATS, WHEAT, CORN, SOYBEANS**
1. Add distilled water (DO NOT USE TAP WATER) to the 30 mL mark of vial #1.
2. Grind sample using blender, food processor, or crush with hammer, and measure the amount of sample shown below with the provided disposable spoon, into Vial #1. Discard spoon after use.
3. Cap and shake for 30 seconds.
4. Let the sample tube sit for 2 minutes and then shake again for 30 seconds. Repeat three more times to ensure all glyphosate is released from the sample into the liquid.
5. Let the sample settle for at least 5 minutes before testing the upper liquid portion of the sample as shown on the Sample Testing Instructions on the next page.

**WATER** (Tap/Faucet Water, Bottled Water, Water from Streams, Ponds or Lakes)
1. Collect sample up to the 40 mL line in Vial #1 then test as shown on the Sample Testing Instructions on the next page.

www.detoxproject.org
**Glyphosate Sample Testing Instructions**

**Step 1.** Prepare sample as described in Food Sample Preparation Chart from the previous page.

**Step 2.** Using the graduated dropper provided, draw/fill the sample up to the 1 mL Fill Line and transfer to vial #2 containing 1 mL liquid solution and shake for 30 seconds. Note: One graduated pipette is provided for each sample and will be used for both steps 2 and 3.

**Step 3.** Using the same graduated dropper from step 2, transfer the entire contents from Vial #2 into Vial #3.

**Step 4.** Discard transfer dropper after use.

**Step 5.** Check the vial to make sure all reagents in the vial have been completely dissolved and thoroughly mixed with the sample.

**Step 6.** Insert test strip, with arrows pointing down, as shown, into Vial #4.

**Step 7.** Remove test strip and lay flat. Allow to continue developing for 5-10 minutes before interpreting results.

**Step 8. Interpret Results**

<table>
<thead>
<tr>
<th>Visual</th>
<th>Water Glyphosate levels</th>
<th>Honey Glyphosate levels</th>
<th>Beer Glyphosate levels</th>
<th>Cereal/Oats/ Wheat Glyphosate levels</th>
<th>Corn/ Soybeans Glyphosate levels</th>
<th>Soil (Requires Soil Extraction Accessory Pack PN 500099)</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>~100 ppb</td>
<td>~2000 ppb</td>
<td>~400 ppb</td>
<td>~2000 ppb</td>
<td>~2000 ppb</td>
<td>~2500 ppb</td>
</tr>
<tr>
<td>Med</td>
<td>~10 ppb</td>
<td>~200 ppb</td>
<td>~40 ppb</td>
<td>~200 ppb</td>
<td>~200 ppb</td>
<td>~250 ppb</td>
</tr>
<tr>
<td>Low</td>
<td>~2.5 ppb</td>
<td>~50 ppb</td>
<td>~10 ppb</td>
<td>~50 ppb</td>
<td>~50 ppb</td>
<td>~62.5 ppb</td>
</tr>
<tr>
<td>Non detect</td>
<td>~0 to &lt;2.5 ppb</td>
<td>0 to &lt;50 ppb</td>
<td>~0 to &lt;10 ppb</td>
<td>~0 to &lt;50 ppb</td>
<td>~0 to &lt;50 ppb</td>
<td>~0 to &lt;62.5 ppb</td>
</tr>
</tbody>
</table>

**Control Line** must be visible for the test to be valid.

- If Test Line is darker or equal to Control Line, then the sample is below the limit of detection of Glyphosate.
- If Test Line is lighter than the Control Line, then Glyphosate is present in the sample. See the above chart for the approximate values of the sample of interest.

**www.detoxproject.org**

File: ABR-648