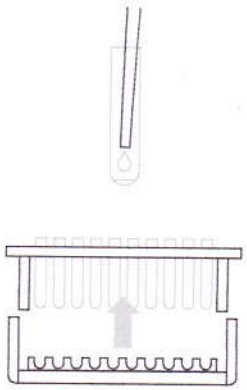
Mag particle

GLYPHOSATE DETAILED FLOWCHART

1.



Remove upper rack from magnetic base. Label test tubes for Standards, Control, and Samples.

there are four standards in kit

Tube #	Content
1, 2	Diluent/Zero Standard 0 ppb 0.075
3, 4	Standard 1, 0.15 ppb
5, 6	Standard 2, 1.0 ppb 0.2
7, 8	Standard 3, 5.0 ppb 0.75
9,10	Control 4.0
11,12	Sample 1
13,14	Sample 2
15,16	Sample 3

Add 300 µL of either **Derivatized** Standards, Control or Samples to the bottom of each test tube by inserting the pipette tip all the way into the bottom of the tube without touching the sides of the tube.

want entire sample in bottom, none on tube walls.

2.

25mL tip

Add 500 µL of thoroughly mixed Glyphosate Antibody Coupled Magnetic Particles down the inside wall of each tube by using the technique described in Box 4. *Vortex* for 1 to 2 seconds (at low speed to minimize foaming).

3.

React 30 minutes at room temperature (15 °- 30°C).

4.

25mL tip

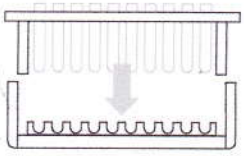
Add 250 µL of Glyphosate Enzyme Conjugate down the inside wall of each tube by aiming the pipet tip 1/4" to ½" below the tube rim without touching the rim or tube wall with the pipet tip; deliver liquid gently.

Vortex mix 1-2 sec.

5.

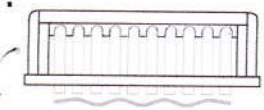
React 30 minutes at room temperature (15 °- 30°C).

6.



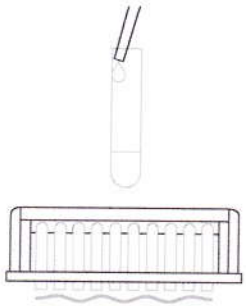
Combine the upper rack with the magnetic base; press all tubes into base; allow 2 minutes for the particles to separate.

7.



Do not separate upper rack from lower base. Using a smooth motion, *invert* the combined rack assembly over a sink and pour out the tube contents; keep inverted and **gently blot** the test tube rims on several layers of paper toweling.

8.

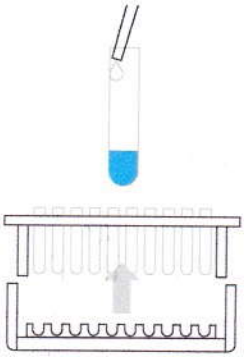


Add 1 mL of Washing Solution down the inside wall of each tube by using the technique described in Box 4. *Wait 2 minutes.* Using a smooth motion, invert the combined rack assembly over a sink and pour out the tube contents: keep inverted and **gently blot** the test tube rims on several layers of paper toweling. Repeat this step **two** times.

more

500µ or 25 mL tip

9.



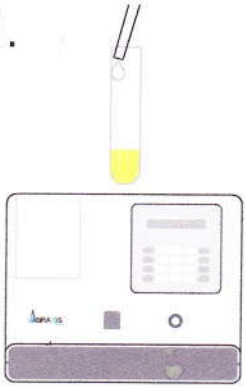
Lift the upper rack (with its tubes) off the magnetic base; *add* 500 µL of Color Reagent down the inside wall of each tube by using the technique described in Box 4. *Vortex* for 1 to 2 seconds (at low speed to minimize foaming).

5mL, 10mL, 25mL tip

10.

React for 20 minutes at room temperature (15°- 30° C). During this period, add 1 mL of Washing Solution into a clean tube for use as an instrument blank in Step 10.

11.



Add 500 µL of Stopping Solution down the inside wall of each tube by using the technique previously described. *Read* results at 450 nm within 15 minutes after adding the Stopping Solution. *Multiply* results of samples by the appropriate dilution factor (if any).

[**Safety Caution:** Stopping Solution contains diluted sulfuric acid.]

n.e. mixing

5 mL, 10 mL, 25 mL tip

For Ordering or Technical Assistance Contact:
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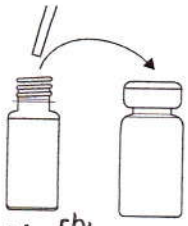
this uses a different set of test tubes than assaying.

Glyphosate ELISA, Derivatization Procedure

1. Derivatization Reagent Preparation

Dilute the derivatization reagent by adding 3.5 mL of the Derivatization Reagent Diluent (clear screw top glass vial) to the derivatization reagent vial (clear crimp top glass vial).
Vortex and set aside.



Vortex 10 times briefly at high speed.

2. Addition of Sample to Test Tubes

Add 250 uL of each standard, control, and sample to the appropriate labeled ~~glass~~ plastic test tube.

1.35 mL total volume

250 uL

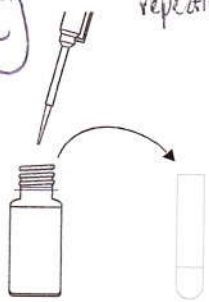
adjustable single shot pipettor.

3. Addition of Buffer

50 or 25 mL repeater tip

1000 uL

Add 1 mL of Glyphosate assay buffer to each tube. Votrex each tube for approximately 1-2 seconds.



Vortex each tube just after adding the assay buffer.
High speed, touch four times.

use the 25 mL pipettor tip.
or 50 mL if > 23 tubes

4. Addition of Derivatization Reagent

5 mL tip partly full

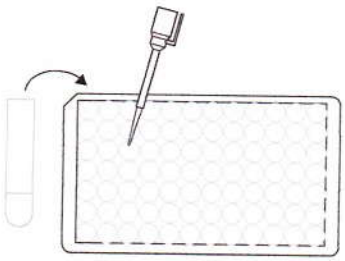
Add 100 uL of the diluted derivatization reagent (prepared in step 1) to each standard, control, and sample successively using a micropipette. Vortex each tube immediately after the addition of derivatization reagent for 15-30 seconds. Incubate tubes at room temperature for 10 minutes.

100 uL

Vortexing: seven times or more until swirls are gone. High speed.

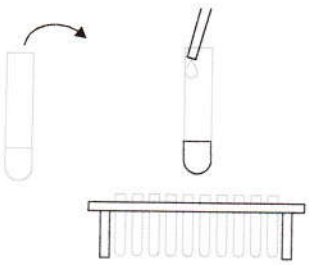
5. Analysis by ELISA

The derivatized standards, control, and samples can then be analyzed using the Glyphosate Plate or Tube ELISA Kits.



[see separate flow chart]

OR



one tube per sample or standard, except two tubes of "C"

For Ordering or Technical Assistance Contact:
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