

2,4-D FLOWCHART


<p>1 Remove upper rack from magnetic base.</p> <p>Label test tubes for Standards, Control, and Samples.</p> <p>Tube # Content</p> <p>1, 2 Diluent/Zero Standard 0 ppb</p> <p>3, 4 Standard 1 1ppb</p> <p>5, 6 Standard 2 10 ppb</p> <p>7, 8 Standard 3 50 ppb</p> <p>9 Control</p> <p>10 Sample 1</p> <p>11 Sample 2</p> <p>Add 250 µL of either Standards, Control or Samples to the bottom of each test tube by inserting the pipet tip all the way into the tube without touching the sides or the bottom of the tube.</p>	<p>3 Add 500 µL of thoroughly mixed 2,4-D Antibody Coupled Magnetic Particles down the inside wall of each tube by using the technique described in Box 2. <i>Vortex</i> for 1 to 2 seconds (at low speed to minimize foaming).</p>	<p>7 Add 1 mL of Washing Solution down the inside wall of each tube by using the technique described in Box 2. <i>Wait 2 minutes</i>. 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.</p>
<p>2</p> <p>Add 250 µL of 2,4-D Enzyme Conjugate down the inside wall of each tube by aiming the pipet tip ¹/₄" to ¹/₂" below the tube rim without touching the rim or tube wall with the pipet tip; deliver liquid gently.</p>	<p>4</p> <p>React 30 minutes at room temperature (15°-30° C).</p>	<p>8</p> <p>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 2. <i>Vortex</i> for 1 to 2 seconds (at low speed to minimize foaming).</p>
	<p>5</p> <p>Combine the upper rack with the magnetic base; press all tubes into base; allow 2 minutes for the particles to separate.</p>	<p>9</p> <p>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.</p>
	<p>6</p> <p>Do not separate upper rack from lower base. Using a smooth motion, <i>invert</i> 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.</p>	<p>10</p> <p>Add 500 µL of Stopping Solution down the inside wall of each tube by using the technique previously described. <i>Read</i> results at 450 nm within 15 minutes after adding the Stopping Solution. <i>Multiply</i> results of extracted soil samples by the appropriate factor.</p> <p>[Safety Caution: Stopping Solution contains 0.5% sulfuric acid.]</p>

For Ordering or Technical Assistance Contact:
 Strategic Diagnostics Inc.
 800 544-8881 302 456 6789
 302 456 6782 Fax

2,4-D Rapid Assay Kits
 100 Tests # A00082
 30 Tests # A00068
 Sample Diluent # A00079

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2,4-D CONCISE FLOWCHART

<p>1</p> <p>Separate the rack.</p> <p>Add 250 μL of Standards, Control or Samples to the bottom of each tube.</p>	<p>3</p> <p>Add 500 μL of mixed Magnetic Particles to each tube.</p> <p>Vortex.</p>	<p>7</p> <p>Add 1 mL of Washing Solution.</p> <p>Wait 2 minutes.</p> <p>Invert the combined rack.</p> <p>Blot.</p> <p>Repeat this step.</p>
<p>2</p> <div style="display: flex; align-items: center;">  <p>Add 250 μL of Enzyme Conjugate to each tube.</p> </div>	<p>4</p> <p>React for 30 minutes.</p>	<p>8</p> <p>Separate the rack.</p> <p>Add 500 μL of Color Reagent to each tube.</p> <p>Vortex.</p>
	<p>5</p> <p>Combine the rack and magnetic base.</p> <p>Seat all tubes.</p> <p>Wait two minutes.</p>	<p>9</p> <p>React for 20 minutes.</p> <p>Prepare blank.</p>
	<p>6</p> <p>Invert the combined rack.</p> <p>Blot.</p>	<p>10</p> <p>Add 500 μL of Stopping Solution to each tube.</p> <p>Read OD 450.</p>

For Ordering or Technical Assistance Contact:

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800 544-8881 302 456-6789

302 456-6782 Fax

2,4-D Rapid Assay Kits

100 Tests # A00082

30 Tests # A00030

Sample Diluent # A00079

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