



Sample Extraction

1. Label a soil extraction bottle and amber glass vial with the sample identification.
2. Weigh 5 g of the soil sample using a weigh boat and wooden spatula.
3. Transfer the sample to the soil extraction bottle.
4. Measure 10 mL of methanol and add it to the soil extraction bottle. The disposable plastic beaker can be used as an intermediate container for the solvent.
5. Cap the soil extraction bottle tightly and shake vigorously for a minimum of 2 minutes. Exposure of the sample to the solvent longer than two minutes is not detrimental.
6. Allow the sample to settle for 2-3 minutes before proceeding.
7. Transfer a portion of the liquid extract to the base of the filtration device.
8. Insert the plunger portion of the filtration device into the base and gently apply pressure to force the extract through the filter.
9. Transfer the filtrate to the appropriate amber glass vial using a disposable transfer pipette and cap tightly.
10. The filtrate can now be analyzed using the Beacon Toxaphene Tube Kit.

Sample Storage

Storage of soil samples should follow the holding conditions recommended for EPA methods 8100 and 8310 (GC and HPLC analysis of Toxaphene in soil, respectively) which is up to 14 days at 4°C (39°F).

Technical Assistance

For questions regarding this kit or for additional information about Beacon products, contact us.

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Safety

Stop Solution is 1N hydrochloric acid. Handle with care. To receive complete safety information on this product, contact Beacon Analytical Systems, Inc., and request Safety Data Sheets.

General Limited Warranty

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Intended Use

The Beacon Soil Extraction Kit is used to extract soil samples for testing in the Beacon Toxaphene Tube Kits.

Reagents and Materials Provided

- 25 Soil extraction bottles containing mixing beads and sodium sulfate.
- 25 Whatman uniprep two-piece filtration units.
- 25 Weigh boats.
- 25 Wood spatulas.
- 25 Amber glass vials with caps.
- 25 Disposable transfer pipettes.
- 1 Disposable beaker.

Reagents and Materials Required but Not Provided

- Pipette(s) with disposable tips capable of measuring 10 mL of methanol.
- Balance capable of weighing 5 g of sample.
- Methanol.
- Timer.
- Permanent marker.
- Personal protective equipment.

Kit Handling Notes and Precautions

- Read the product brochure in its entirety prior to use.
- All procedural steps should be completed without interruption. Ensure all reagents, materials and equipment are ready at the appropriate time.
- Dilution or adulteration of reagents or samples not called for in the procedure may result in inaccurate results.
- Use clean materials for each sample to avoid cross contamination.

Sample Collection

Distribution of Toxaphene in soil samples may be highly variable. This variability can be minimized through the use of composite sampling technique.

Sample Preparation

1. Remove any twigs, organic matter, and rocks.
2. Dry soil samples expected to contain > 30% water by weight. This includes but is not limited to samples taken from areas adjacent to standing water and surface soils collected during or immediately after rain or snow. Contact technical support for recommended drying methods.
3. Homogenize the soil sample.