



Florisil® SPE Cartridge

cat.# 24031, 24032, 24034,
26085, 26086, 26205, 26228

Procedure for Florisil® SPE cleanup of chlorinated pesticide extracts following EPA Method 3620C*

Cartridge: 1,000 mg Florisil® (cat.#24034, 26085)**

Conditioning: Add 4 mL hexane; do not allow top frit or Florisil® bed to go dry. Allow the cartridge to soak for 5 minutes.

Sample: Add 1 mL of pesticide sample in hexane.

Elution:

- Pull the sample through the Florisil® SPE cartridge at a drop-wise rate until the hexane level reaches the top of the top frit. Stop the flow.
- Fill the cartridge with a 90:10 hexane/acetone solution. Restart the drop-wise flow.
- Collect the effluent from the cartridge in a 10 mL volumetric flask until 10 mL has been collected. Stop the flow.

Note: The cartridge will need to have additional 90:10 hexane/acetone solution added throughout elution in order to collect a complete 10 mL sample.

Concentration:

Remove the collection flask and concentrate the sample to a final volume of slightly less than 1 mL. Use hexane to bring the sample back to a volume of 1 mL. Transfer the sample to a 2 mL GC autosampler vial for analysis.

Precautions:

Successful results require both uncompromised cartridge quality and careful technique.

To ensure cartridge quality:

- Unopened packages should be stored in a clean, dry location and used promptly.
- Opened packages should be carefully resealed and stored in a desiccated container until the next use.
- Cartridges should not be removed from the packaging prematurely or exposed to the air for prolonged periods before use, as the Florisil® material is hygroscopic and will be deactivated by ambient moisture, resulting in poor performance.
- If the packing bed has shifted during transport or storage, tap tube to resettle the bed and press the top frit firmly into contact with the top of the Florisil® bed.

To ensure optimum performance:

- Do not use any plastic or plastic-containing device for sample or solvent handling or transfer.
- Maintain a drop-wise flow rate. A steady stream will negatively affect results and should be avoided.

* Florisil® SPE cartridges can be used for numerous other cleanup procedures. If you need assistance, contact Restek Technical Service or your local Restek representative.

** For cartridges with different adsorbent bed weights, these instructions are still appropriate; however, solvent volumes should be adjusted.

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Contact Technical Service at 1-800-356-1688, 1-814-353-1300, ext. 4, or support@restek.com
(or contact your Restek representative) if you have any questions about
this product or any other Restek product.

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