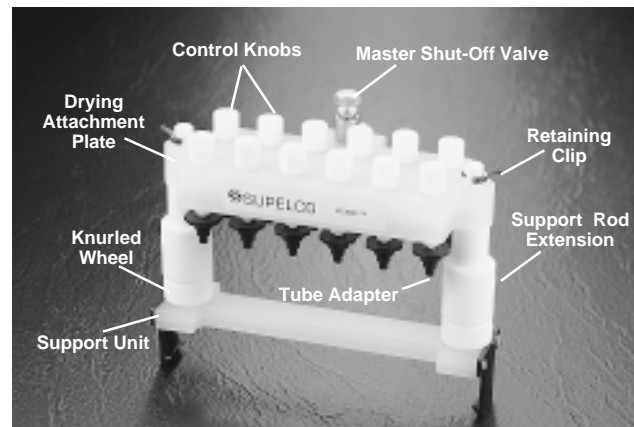


13. Using appropriate brass fittings, attach other end of tubing to pressurized gas source via regulator with gauge. Open gas valve and set pressure (*no more than 40psi/2.76 bar/0.27 MPa*).
14. Carefully open master shut-off valve on drying attachment plate by turning knob counterclockwise about 1/4 turn. Adjust rate of gas flow through each SPE tube by turning flow control knob.
15. When tubes have dried to appropriate degree, turn off gas flow at master shut-off valve and wait for gas flow to cease.
16. To remove drying attachment plate, turn support rod extension posts counterclockwise until they become difficult to turn and plate is raised. Free control knobs from extraction tubes by turning knobs clockwise while pulling up. Detach two retaining clips from support posts and remove plate.
17. Proceed with extraction procedure.

For replacement parts, or for Supelclean™ or Discovery™ SPE tubes, refer to the Supelco catalog.

How to Install and Use the Visidry™ Drying Attachment* for the Visiprep™ Solid Phase Extraction Vacuum Manifold[▲] Catalog Numbers 57100-U, 57124



P000109

The Visidry drying attachment enables you to evaporate eluates or dry the packing in SPE tubes under controlled conditions. Use the drying attachment with clean, dry, inert gas at pressures up to 40psig. We recommend nitrogen for most purposes. In addition to the components shown in the figure above, the unit includes 6' of 1/8" Teflon® tubing, 12 reusable tube adapters for 1mL, 3mL, or 6mL SPE tubes (Cat. No. 57020-U), 12 female luer plugs, and 2 spare support rod clips.

CAUTION: Solvent fumes can be hazardous. Operate your Visiprep manifold in a fume hood.

Trademarks

Discovery, Supelclean, Visidry, Visiprep — Sigma-Aldrich Co.
Teflon — E.I. du Pont de Nemours & Co., Inc.

Evaporating Eluates

1. Place collection vessel rack containing samples in SPE vacuum manifold basin.
2. Install support unit on vacuum manifold cover. Be sure clips on ends of unit snap into place beneath cover.
3. Screw knurled wheels all the way down on threaded metal rods on support unit. Do not use support rod extensions.
4. Mount drying attachment plate on threaded metal rods. Master shut-off valve should face rear (Figure A, next page).
5. Seat each male luer fitting on drying attachment plate in corresponding female luer fitting on vacuum manifold cover. Do this by pushing down on control knobs and rotating them clockwise.
6. Turn each control knob 1/4 turn counterclockwise, then 1/4 turn clockwise. This will ensure that each flow control valve on manifold cover turns when corresponding control knob is turned. If a control valve does not turn, reseal luer fitting by pressing down firmly on control knob. Once fittings are properly joined, turn control knobs clockwise to close all flow control valves. (Do not overtighten or fittings will separate.)
7. Remove vacuum hose from SPE vacuum manifold.
8. Turn knob on master shut-off valve to OFF position (fully clockwise).

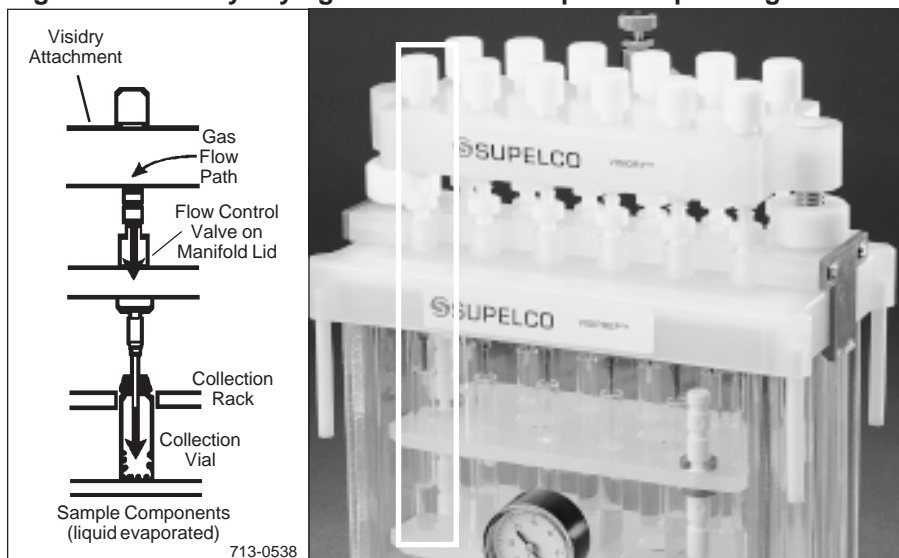
* US Pat. No. 4,810,471; other patents pending.

▲ US Pat. Nos. D.289,861; 4,810,471; other patents pending.

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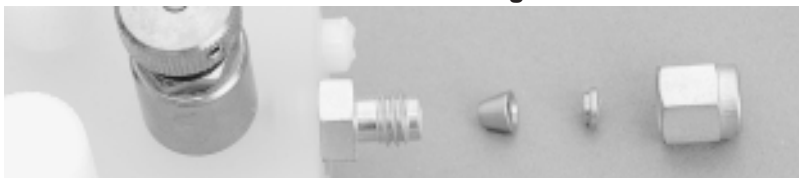
Figure A. Visidry Drying Attachment Set-up for Evaporating Eluates



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9. Attach brass nut and ferrule to one end of 1/8" Teflon tubing (Figure B).
10. Using appropriate brass fittings, attach other end of tubing to pressurized gas source via regulator with gauge. Open gas valve and set pressure (*no more than 40psi/2.76 bar/0.27MPa*).
11. Carefully open master shut-off valve on drying attachment plate by turning knob counterclockwise about 1/4 turn. *Slowly* open individual flow control valves on vacuum manifold cover by pressing down on each control knob and turning it counterclockwise. Adjust gas flow to each collection vessel as needed.
CAUTION: If valves are opened too quickly or too far, sample may be lost due to splashing.

Figure B. Brass Nut and Ferrule in Proper Position for Installation on Teflon Tubing



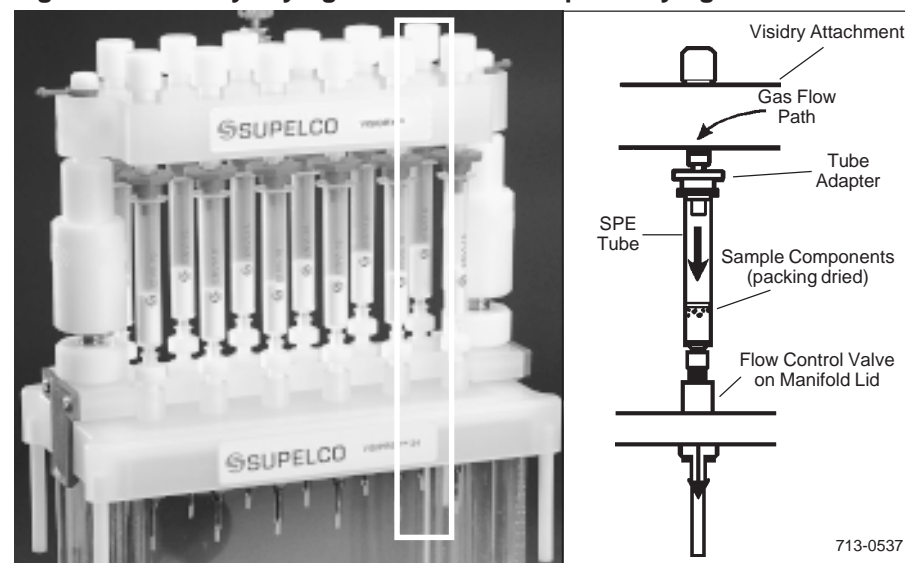
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12. When extracts have been evaporated as desired, turn off gas at source. Wait for gas flow to cease.
13. Lift off vacuum manifold cover/drying attachment assembly and remove collection vessel rack from basin.
14. To remove drying attachment plate, replace assembly on manifold basin. Turn knurled wheels until they become difficult to turn due to contact with drying attachment plate. Loosen fittings by rotating each control knob clockwise while pulling upward.
15. Reconstitute samples as appropriate for analysis.

Drying Solid Phase Extraction Tubes

1. Install tube adapter (Cat. No. 57020-U for 1mL, 3mL, or 6mL tubes, Cat. No. 57267 for 12mL, 20mL, or 60mL tubes) to top of each SPE tube to be dried.
2. Install support unit on vacuum manifold cover. Clips on ends of unit should snap into place beneath cover.
3. Screw knurled wheels all the way down on threaded metal rods on support unit.
4. Screw support rod extensions onto threaded metal rods, clockwise. Leave a gap of a few millimeters between extensions and knurled wheels.
5. Remove retaining clips from support rod extensions.
6. Mount drying attachment plate to support rod extensions, with master shut-off valve to rear (Figure C).

Figure C. Visidry Drying Attachment Set-up for Drying SPE Tubes



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7. Seat each male luer fitting on drying attachment plate in corresponding SPE tube adapter, by pushing down on control knobs and rotating them clockwise.
Note: To minimize loss of drying gas through unused ports, firmly install female luer plugs (provided) on male luer fittings not in use.
8. Install a retaining clip on each support rod extension. Draw drying attachment plate down evenly on tubes by turning rod extensions on threaded metal rods. Do not overtighten or top may become distorted and cause support unit clips to disengage.
9. Turn each control knob 1/4 turn counterclockwise, then 1/4 turn clockwise. This will ensure that each flow control valve on manifold cover turns when corresponding control knob is turned. If a control valve does not turn, reseal luer fitting by pressing down firmly on control knob. Once fittings are properly joined, turn all control knobs attached to tubes clockwise to close flow control valves. (Do not overtighten or fittings will separate.)
10. Turn knob on master shut-off valve to OFF position (fully clockwise).
11. Remove vacuum hose from vacuum manifold.
12. Attach brass nut and ferrule to one end of 1/8" Teflon tubing (Figure B).