

Sample Preparation Starter Kit SP3-ST

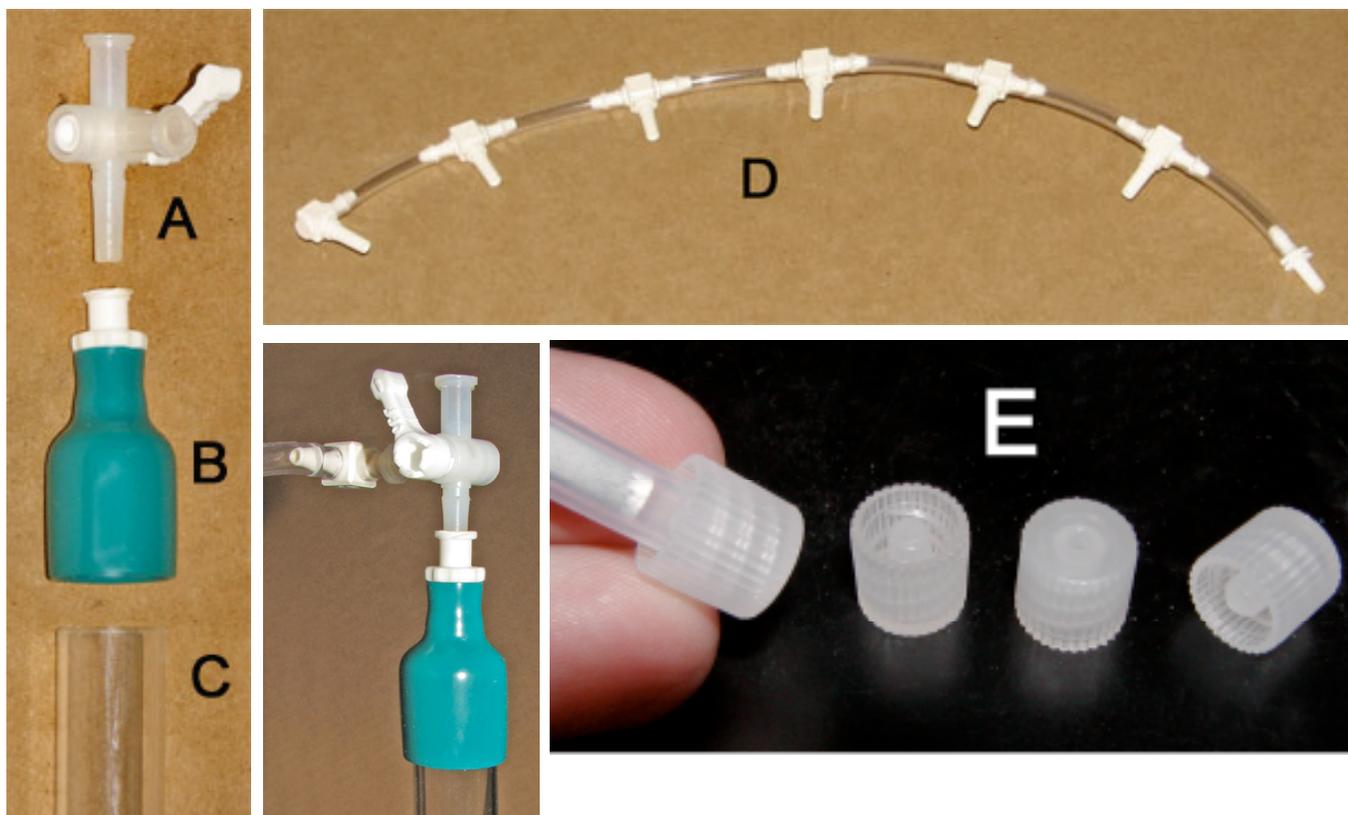
Intended Purpose

reusable pressure manifold and related items for coupled column cleanup
for use with Sample Preparation Kits labeled SP2/3/4/5
single manifold allows for simultaneous cleanup of 6 extracts in one batch
2 to 4 manifolds can be connected for batch processing of up to 24 extracts
requires external pressure source such as air compressor or gas cylinder

requires SP2-RK rack (1 rack per 2 six position manifolds)
allows for processing of 15 mm (outside diameter [OD]) columns
processing of 25 mm columns requires 25 mm pressure caps (not part of this kit)

Materials List

- A) solvent resistant six 3-way stopcocks for pressurizing columns and adding solvents
- B) solvent resistant 15 mm pressure caps to fit above reservoirs and 15 mm OD acid silica columns
- C) 6 glass reservoirs (15 mm OD) for carbon column wash and elution
- D) 6 port manifold with 1-way stopcock (not shown) for isolating entire manifold from pressure source
- E) 6 male Luer plugs to fit carbon columns for vacuum depressurization





Notes on use:

- 1) solvents should be added to columns through needle funnel (above right, CAPE Technologies item # NF25-2) or similar device to minimize analyte loss and sample contamination
- 2) typical operating pressures of 7-10 psi (approx 0.5-0.7 bar) should give carbon column flow rates of 1-2 mL/min
- 3) pressure should not exceed 10 psi (approx 0.7 bar)
- 2) stopcocks are solvent compatible (except acetone)
- 3) pressure cap fittings are solvent compatible
- 4) manifold fittings are NOT solvent compatible
- 5) manifold fittings are solvent welded; if a joint separates, wet the broken surfaces with a few microliters of dichloromethane (do NOT immerse!) and press firmly together for 10 seconds. Allow to dry for a minute or two before use.

The following items can be ordered separately if necessary to replace lost or damaged parts:

- 15 mm pressure caps (CAPE Technologies item # PC15-6)
- 15 mm reservoirs, stopcocks, male Luer plugs

This kit can also be used for cleanup procedures requiring 25 mm columns from other CAPE Technologies sample prep kits, such as the SP5. Order separately 25 mm pressure caps (CAPE Technologies item # PC25-6, pack of six) for pressurizing 25 mm columns, and needle funnels (item # NF25-2, pack of two) for adding large volume sample extracts to columns [shown above right].