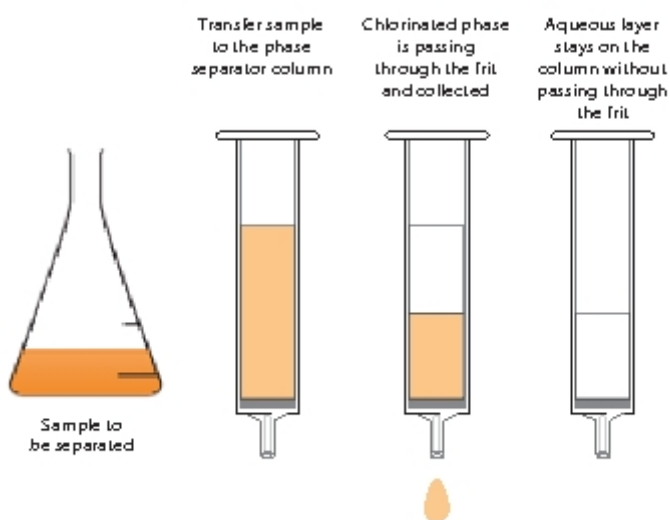


| SiliaPrep™ Phase Separator Cartridges | |
|---------------------------------------|-----------------------------------------------------|
| PS-012 | SiliaPrep™ Phase Separator Cartridge 12 mL, 100/box |
| PS-060 | SiliaPrep™ Phase Separator Cartridge 60 mL, 50/box |
| PS-150 | SiliaPrep™ Phase Separator Cartridge 150 mL, 25/box |

Typical Experimental Procedure Phase Separators

1. Select the appropriate size of a Phase Separator Column to hold the entire sample volume (both aqueous and chlorinated phases).
2. Connect the Phase Separator Column on a vacuum manifold. Ensure the collection vessel volume is sufficient enough to recuperate entirely the organic layer. (Note: Do not connect the manifold to a vacuum source.)
3. Transfer the sample mixture to be separated on the top of the Phase Separator Column.
4. After a few seconds (under gravity), the water immiscible chlorinated solvent will start to pass through the frit and is collected in the suitable vial already placed inside the manifold.
5. The proprietary frit used in the Phase Separator Column allows the aqueous layer to be left on the column for at least 48 hours without passing through the frit.



SiliaPrep Phase Separator Typical Experimental Procedure

Important Advices

- Process under gravity only - Do not apply vacuum or positive pressure. The Phase Separator Columns are designed to be used under gravity only. The use of vacuum or positive pressure source can yield to a lost in the separation efficiency.

- Biphasic or two phase system required
- The sample to be separated needs to contain water and a water immiscible solvent with greater density than water to form the lower layer. Most common solvents are dichloromethane, chloroform and chlorinated solvents. Furthermore, try to minimize the presence of water miscible solvent (i.e. methanol, ethanol or acetone) which can cause problem to obtain a real biphasic system and consequently, the phase separator may not work effectively.

*To obtain a most efficient compound partition between the aqueous and the organic layer, a liquid-liquid extraction can be done prior to use the phase separator column.