

OBSOLETE: Phosphate Buffer use and for Column Storage Solvents for Bidentate C18 Columns - INTERNAL ONLY

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INTERNAL ONLY - This information may not be current June 2022

The Cogent Bidentate C18™ phase can be stored in un-buffered aqueous / organic solvents, but flowing significant bed volumes of un-buffered aqueous will cause a drop in efficiency of approximately 35% before reaching a new steady state. This is why we recommend either acid or basic buffers but not un-buffered eluents during analysis.

For storage 0.04% v/v phosphoric acid (85% bench phosphoric acid) is preferred.

No, Phosphoric Acid will not precipitate in the columns.

Sodium phosphate (which is **not recommended**) but which is often used as a buffer, will precipitate in the columns and should be avoided as a storage solvent for all HPLC Columns.

Phosphoric acid may be used to acidify 99+ % organic solvents such as methanol and acetonitrile without precipitation provided no sodium salt used.

[How to store Cogent Bidentate C18 columns](#)

