

# How to Store & Condition Diamond Hydride™ HPLC Columns

## Conditioning steps depends on the samples:

Before first use, condition the column with 50:50 MeOH/water for 30 min.

1. Urine, plasma or other biological samples etc:
  - A: Conditioning with 80% acetonitrile/ DI water/0.2 % acetic acid (or 0.1% formic acid) is recommended for 20 min.
  - B: Cleaning with 50% MeOH/50% water is recommended for every 10 injections for 5 min.
2. Using Standard Samples:
  - A: Conditioning with 80% acetonitrile/ DI water/0.2 % acetic acid (or 0.1% formic acid) is recommended for 20 min.
  - B: Cleaning with 50% MeOH/50% water is recommended every 100 injections or sooner if change in performance is noticed for 5 min.

## Storing the column:

1. For long term storage 100% ACN is best. Rinse with 10 column volumes first.
2. For moderate length of time 90:10 acetonitrile/water with 0.1% formic or acetic acid. Rinse with six column volumes.

## Washing to remove adsorbed compounds:

The best method for washing a Diamond Hydride column is to use 50:50 Methanol/Water with 0.1% formic acid as rinse solvent. Wash for 60 minutes using a lower flow rate than for your regular runs. Return to ACN/water.

If the performance can still be improved, wash your column overnight using 50:50 Methanol/Water with 0.1% formic acid at a low flow rate.

If needed uninstall the column and reverse direction and wash it with 50:50 Methanol/Water with 0.1% formic acid for 60 minutes.

**Never let the column dry out.**



**MicroSolv Technology Corporation**

1 Industrial Way W., Bldg E Unit D, Eatontown, NJ 07724 USA

Ph. 1-732-578-1777 Fx. 1-732-578-9777

www.MTC-USA.com Email: info@MTC-USA.com