

AffiPro

Advanced technology for Your lab

INSTRUCTION FOR USE

AffiPro Acidic protease columns perform online protein digestion.

- The columns can be connected to an HPLC or LC/mass spectrometry system for analysis of the protein digest.
- The degree of digestion can be controlled by changing flow rate, pressure or temperature.
- The columns are compatible with common buffers including 3 M urea, 1 M thiourea or 3 M guanidine hydrochloride.
- The pressure limit of the columns is **2000 psi**.
- The columns **must not be** exposed to solutions with pH greater than 4.5 or organic solvents.
- The columns can be tested for enzyme activity using myoglobin and LC/MS system for detection of digest.
- The columns should be stored with endcaps at 4°C in digestion buffer or in solution with pH lower than 4.5 without organic solvents.

TIPS

- Before first use or after longer storage, unplug the trap column and flush the protease column for 5min at flow rate 0.1 mL/min with digestion solvent.
- Autodigest peptides could be observed in the first run or after longer storage. Inject standard protein for several times to settle the column.
- When using Viper Fingertight Fitting (Thermo Scientific), it is recommended to use reduction (see the picture).

