

## COLUMN USE AND CARE INSTRUCTION

Please read carefully before using this column

To insure that the column provides you with reliable chromatography, please follow the guidelines below.

**Samples:** Prepare in mobile phase or a very similar solvent mix. If gradient elution is to be performed, prepare the sample in a solvent mix that is the same or similar to the  $T_0$  composition. Ensure the final, sample solution is particulate free, preferably by filtration through a 0.2  $\mu\text{m}$  filter.

**Solvents:** All buffers, if required, should be prepared on the day of analysis. If buffers are not prepared freshly, ensure that their pH has not changed and that there is no microbial growth present. The pH of the buffer used is dependent on the application and the packing media in this column. We recommend that buffers between pH 2 and 8 be used with all columns. All solvents should be filtered through a 2  $\mu\text{m}$  filter and thoroughly degassed before use.

**Column Installation:** Handle the column with care. Do not drop or shock the column as this may damage the packed bed, resulting in decreased column performance. Ensure that the seating and depth of fittings and ferrules is optimized to reduce the risk of leaks and dead volume. Equilibrate your column with a minimum of 20 column volumes of test mobile phase prior to starting an analysis. If transferring between normal and reversed phase, ensure that all the normal phase solvents are removed from the column before any aqueous solvents are introduced and vice versa.

**Column Protection:** For "dirty" samples or those whose purity is not known, we recommend the use of a column pre-filter and/or guard. Their use will extend the lifetime of your analytical column by trapping any particulates and contaminants in your sample.

**Column Aftercare:** Prior to storage, flush the column with a wash/storage solvent (containing no buffers) to remove all traces of organic and inorganic compounds from the packed bed. For reversed phase columns, the wash/storage solvent used should contain at least 30 %v/v organic solvent (preferably acetonitrile). For storage periods in excess of 7 days, the column should be flushed and stored in solvents with high organic content (typically 80%v/v).

FAILURE TO FOLLOW THESE PRECAUTIONS  
MAY VOID THE COLUMN WARRANTY