Follow these 6 simple steps to maximize column performance.

Because of a smaller frit size at the head of the column, Rapid Resolution High Definition and Rapid Resolution High Throughput columns* may become plugged if proper precautions are not taken. To ensure best results, please follow these simple usage guidelines at right.

1 Install and run the column only in the flow direction marked on the column.
2 Use only solvents that are high quality, chromatography grade.
3 Filter all aqueous buffers and all samples through an appropriate 0.2µm filter before use.
4 Replace bottles of mobile phase buffer every 24-48 hours — do not add mobile phase to the bottle; always use a fresh bottle.
5 Do not use a high buffer salt mobile phase (>50mM) in combination with high ACN concentrations due to possible precipitation.
6 An in-line filter (5067-1551 for 2.1 or 3.0 mm ID columns or 5067-1553 for 4.6 mm ID columns) is recommended to catch particulates and extend column life. Change the filter when the pressure increases by 10%.

* RRHD (Rapid Resolution High Definition) columns: 1.8µm for 1200 bar operation and RRHT (Rapid Resolution High Throughput) columns: 1.8µm for 600 bar operation with any UHPLC instrument.

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Important Usage Information!

Ensure proper performance.

Please complete the checklist at right before running your column for the first time.

To learn more about proper care and usage of high-performance Rapid Resolution High Definition and Rapid Resolution High Throughput columns*, please visit our web site at www.agilent.com/chem/rrht

✔ Purge the pumps (the connections up to the column) of any buffer containing mobile phases and flush through 5 mL of solvent before attaching the column to the instrument.

✔ Flush the column with compatible mobile phase starting slowly at 0.1 mL/min for a 2.1 mm ID column, 0.2 mL/min for a 3.0 mm ID column, and 0.4 mL/min for 4.6 mm ID. Increase the flow rate to the desired flow over 5 minutes.

✔ Once the pressure has stabilized, attach the column to the detector.

✔ Equilibrate the column and detector with 10 column volumes of the mobile phase prior to use (1 mL – 5 mL depending on column size).

✔ Avoid over-pressure. Check the pressure range of your gradient — which may be 100-300 bar or more — before starting any sequence.

Read the data sheet included in the column box, to check applicable conditions before starting.

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