

Extend the lifetime of your Waters steel cartridge column and increase its efficiency : Sentry / Waters Corporation.

Contributors

Waters Corporation.

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**Extend
the Lifetime
of Your
Waters Steel
Cartridge Column
and Increase its
Efficiency**

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Waters

SENTRY



Use Sentry Guard Columns with Waters Steel Cartridge Columns

For a Longer, More Productive Lifetime

Unlike other guard columns, the integrated Sentry™ guard columns are designed to connect directly onto Waters steel cartridge columns with no increase in dead volume. Sentry guard columns are ideal because they remove impurities, extend the lifetime of your analytical column or cartridge column and allow for easy replacement. While many guard columns boast no loss in efficiency or peak symmetry, only one can actually increase your steel cartridge columns' performance : The Sentry guard column from Waters. Let it stand guard over your Waters steel cartridge column.



Will I lose efficiency by adding your Sentry to my analytical column ?

No, the Sentry guard column is a 20 mm x 3.9 mm I.D. column packed using the same high performance packing technique as analytical columns. Unlike conventional guard columns, it adds performance to your analytical columns. When you use a Waters cartridge column you can connect the Sentry guard column directly to the cartridge with no intervening tubing.

Why should I choose Sentry as a guard column ?

The table (right) gives some results obtained from testing several types of guard columns. It can be clearly seen, that the high-performance packing techniques used in the manufacture of Sentry guard columns result in a superior plate-count, which explains the excellent performance obtained when they are used as guard columns.

Sentry Guard Column versus other guard systems

Guard Column	Plate Count
Sentry with Symmetry C18 (3.9 mm x 20 mm, 5µm)	> 1400 Plates
Manufacturer A, C18 (4.3 mm x 10 mm, 5µm)	450 Plates
Manufacturer B, RP-C18 (3.2 mm x 15 mm, 7µm)	90 Plates

When to change the Sentry Guard column ?



Column: Symmetry C₁₈, 3.9 mm x 150 mm with Sentry Guard Column
Mobile Phase: 20% methanol / 80% aqueous

When do I have to change my guard column ?

The guard column should be changed when the backpressure increases by approx. 20% - see bar graph for Symmetry column lifetime study. The guard column should also be changed when the resolution decreases beyond method acceptability (20 to 30% decrease in efficiency typical).

Will I get the same results when changing the Sentry or the analytical column ?

Yes, because Waters is testing column performance over time. Although other manufacturers claim reproducibility, no other column supplier controls and documents every step of the manufacturing process like we do. These tight controls result in retention time differences of less than 1% RSD for different batches. All this is done in Waters cGMP, ISO9002 registered manufacturing facilities, ensuring column-to-column and batch-to-batch reproducibility for long term compliance.



You want to know more ? Call us ! We are ready to help.

Waters