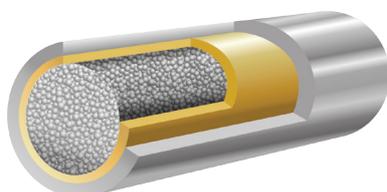


Customer Experience:

The Advantage of YMC-Triart Metal-free Columns

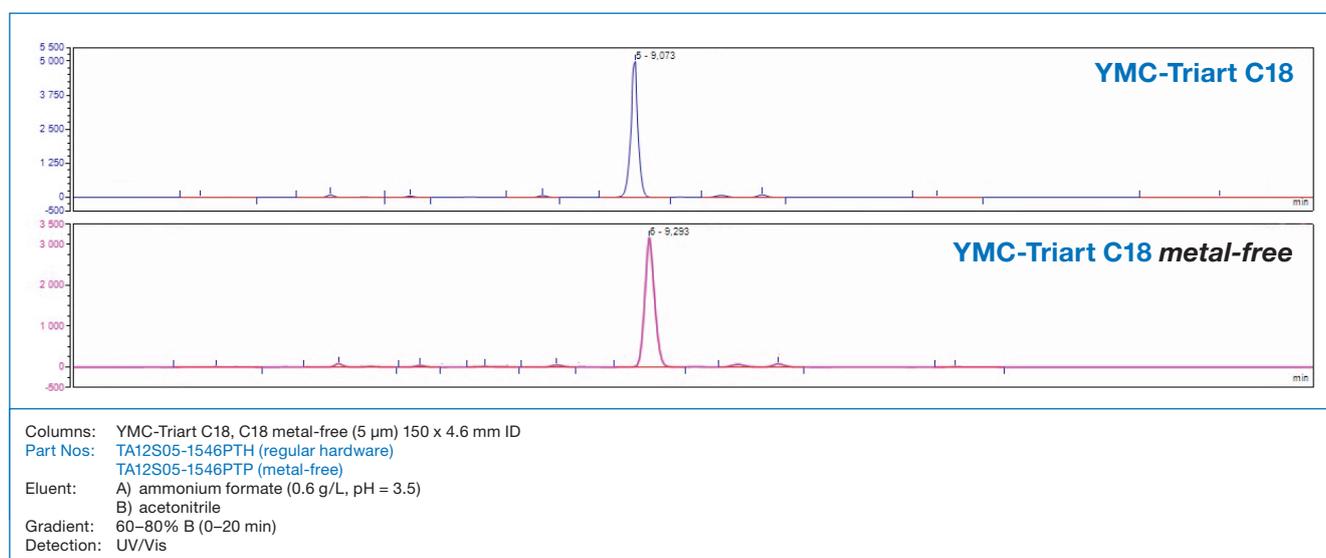
One of YMC's key users in France has assessed the use of YMC's metal-free columns for their purposes. They compared a YMC-Triart C18 column in standard stainless steel hardware with a metal-free YMC-Triart C18 column. A standard small molecule as well as a substance with a chelating effect was used to demonstrate the specific requirements for metal-free column hardware.



YMC-Triart metal-free columns are PEEK layered and equipped with PEEK frits. In order to maintain the pressure resistance their outer body is stainless steel. Therefore, the same pressure ratings as for the standard columns are available. Both hardware types are available for UHPLC and HPLC usage.

The results obtained demonstrate the massive influence of the column hardware on the analysis of sensitive compounds, such as coordinating substances, while the results for other compounds are not affected.

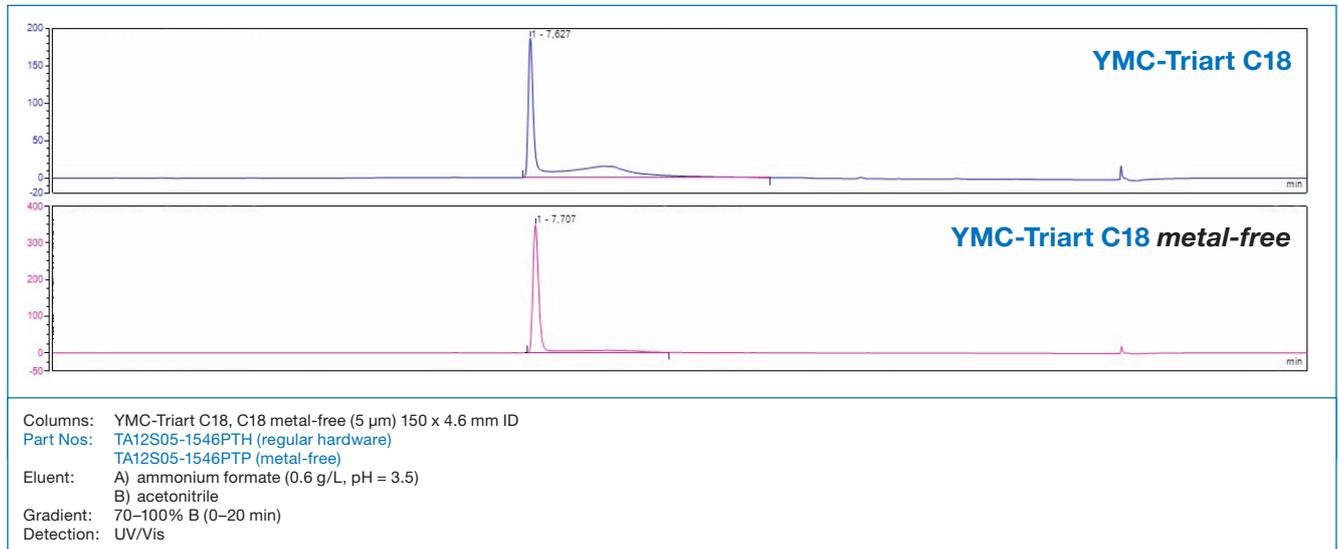
Non-coordinating small molecule "Classic compound"



YMC-Triart C18 shows excellent peak shapes with both hardware types, stainless steel and metal-free. Due to the different construction of the hardware types, a minor difference in the retention times can be observed.

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Coordinating Substance “Chelating Effect Compound”



In contrast to the first evaluation, the effect of the metal-free hardware is remarkable for analysing the chelating compound. A single symmetric peak was obtained when using the metal-free

YMC-Triart C18 column whereas the use of the stainless steel YMC-Triart C18 column showed not only a tailing, but also a second broad peak.

