

Restek Launches Next-Generation RMX GC Columns with TriMax Technology



Achieve lower levels of detection and confidently report problematic active analytes with new RMX GC columns featuring revolutionary TriMax deactivation technology. Engineered for demanding applications that require trace-level detection, RMX columns deliver maximum inertness, sensitivity, and durability—ensuring superior performance for a wide range of challenging compound classes, including acids, bases, alcohols, and more.

TriMax technology creates an exceptionally inert, contaminant-free surface, eliminating the residual active sites that compromise peak shape and reproducibility with traditional column deactivations. The analytical result: symmetrical peaks, trace-level sensitivity, extended column lifetime, and performance that bounces back even after aggressive thermal cycles and heavy matrix contamination.

“TriMax deactivation represents truly groundbreaking research,” said Principal Scientist Danny Shollenberger. “This innovation leverages novel reagents purposely engineered for gas chromatography. By combining optimal reagent chemistry with a precisely controlled process, we dramatically reduce residuals and enable synergistic reactions that form an ordered, dense, three dimensional network of bonding, crosslinking, and deactivation. The result is exceptional trace-level reliability, superior inertness, and significantly extended column lifetime.”

“GC customers today are navigating significant challenges—including the chlorinated solvent ban, method consolidation pressures, instrument lifetime limitations, and the need to achieve picogram-level sensitivity. We listened closely to our customers’ concerns and designed solutions to directly address them,” said Ramkumar Dhandapani, PhD, Director of Product Management. “RMX columns are another reflection of Restek’s core values of We Care and Better Every Day translated into a valuable solution for our customers.”

The high sensitivity and consistent performance of RMX columns empower laboratories to meet stringent data quality requirements longer, expand analyte lists, and reduce solvent use through scaled-down sample extractions. With broadly effective inertness, proven sensitivity, and rock-solid durability, RMX columns help labs maximize productivity and profitability.

Unleash your RMX advantage—sensitivity, reliability, and performance redefined. discover.restek.com/RMX

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