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Waters launches updates to sample vials line focused on cleanliness & accuracy

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Certified contaminant-free LC/GC and LC/MS sample vials reduce risk of contamination and help ensure top-quality and reproducible test results



American analytical laboratory instrument and software company Waters Corp has announced a new test protocol for its Waters LC/GC Certified Vials along with a new addition to its line of Waters TruView pH Control LC/MS Certified Vials.

The Waters LC/GC Certified Vials undergo a new and highly-sensitive UPLC-UV Certification test at 195nm at a contamination level of <100 ppb to ensure that not just the sample vial – but its cap and septum too – are all free of contamination. Passing this test is sufficient to ensure contaminant-peak-free operation under typical LC-UV conditions.

The new Waters TruView pH Control LC/MS Certified Vials have a modified glass surface which limits the leaching of free sodium ions into solution. This limits a pH drift away from the neutral thus reducing unwanted chemical reactions and resulting ghost peaks. The vials also reduce analyte loss due to the adsorption of polar bases.

As much as laboratories try to eliminate the risk of producing erroneous results, more than 50% of customers polled by Waters report occasional or even frequent problems with contamination or ghost peaks. These latest editions to Waters' sample vial portfolio help eliminate vials as a cause of out-of-specification results.

"Using a sample vial with controlled surface parameters and a high vial-to-vial reproducibility is transformative as it increases data quality and reduces uncertainties with result interpretation," said Dr Hartmut Kagerer, Head of Quality Control, Bayer AG, Supply Center Bergkamen, Germany.