

Thermo Scientific Synchronis HPLC Columns

Consistent Reproducible Separations, Column after Column, Time after Time. Extensive testing and strong quality control procedures ensure the consistency of Synchronis HPLC columns – column after column.

- Thermo Scientific™ Synchronis™ HPLC columns are manufactured, packed and tested in ISO9000 accredited facilities. Each lot of silica is tested for the physical properties of the silica support and only released for production if it meets the stringent test specifications.
 - Synchronis columns are based on highly pure 100Å silica, with a surface area of 320m²/g, compared to 200m²/g for typical silica based material. This greater surface area ensures good retention of analytes having a range of hydrophobicity, away from the solvent front.
 - Available in three particle sizes: 1.7µm for rapid UHPLC separations plus 3µm and 5µm for the more traditional HPLC analysis.
 - Synchronis reversed phase columns are densely bonded and double endcapped to minimize the number of residual silanols available to interact with basic analytes.
 - Each batch of chromatographic media packed into Synchronis columns is put through a series of diagnostic chromatographic tests, based on those developed by Tanaka¹ to ensure consistent, predictable separations.
- These tests rigorously probe interactions between analytes and the stationary phase, measuring hydrophobicity, shape selectivity and secondary interactions with bases, acids and chelators.
- Enhanced, automated packing methods drive consistency even further and every column is individually tested to ensure that it meets the required quality.



View product information and application notes

For full details on the Synchronis column range, please request or view a copy of our Synchronis technical guide
www.thermoscientific.com/synchronis

