BioSpectrum the business of Bio & Health Sciences

Phenomenex's new core-shell HPLC prep column to enable higher loads for pharma lab purification

11 October 2013 | News | By BioSpectrum Bureau

Phenomenex's new core-shell HPLC prep column to enable higher loads for pharma lab purification

The new 30 mm column will enable increased loading of sample and throughput. With the addition of this larger diameter column, Phenomenex offers core-shell media line can be used from analytical scale through scale-up to purification.

The Phenomenex Axia preparative format is said to deliver longer column lifetime, higher efficiencies, improved performance and high reproducibility, compared to conventionally packed columns for lab-scale preparative chromatography.

"Our range of Kinetex core-shell particle size offerings, including 1.3-, 1.7-, 2.6- and 5-micron, enables exacting scale-up in pharmaceutical applications, eliminating extensive method rework," said Mr J T Presley, brand manager, Phenomenex.

"The 30 mm columns are now available in C18, XB-C18, C8 and Phenyl-Hexyl phases, and we will be introducing more phases in the near future," he added.

5-micron is claimed to be the largest particle in the Kinetex core-shell family, delivering better performance than 5-micron fully porous offerings, with no increase in backpressure.

In fact, the 5-micron media provides 60 to 90 percent higher average efficiencies compared to the same size, fully porous columns with little to no method development.

Phenomenex's patented Axia packing and hardware technology, which was introduced in 2005, eliminates the drawbacks of traditional slurry packing, delivering uniform bed density and dramatic performance advances.

Kinetex core-shell technology in the Axia preparative format is seen to perform well which is advantageous to users in

pharmaceutical and natural products development, who can use scalable core-shell solutions from analytical stage UHPLC or HPLC methods to purification.