

Monodisperse HPLC Particles



Fully QC Validated Columns

The Evolution of HPLC Columns



Fully QC validated Evosphere columns



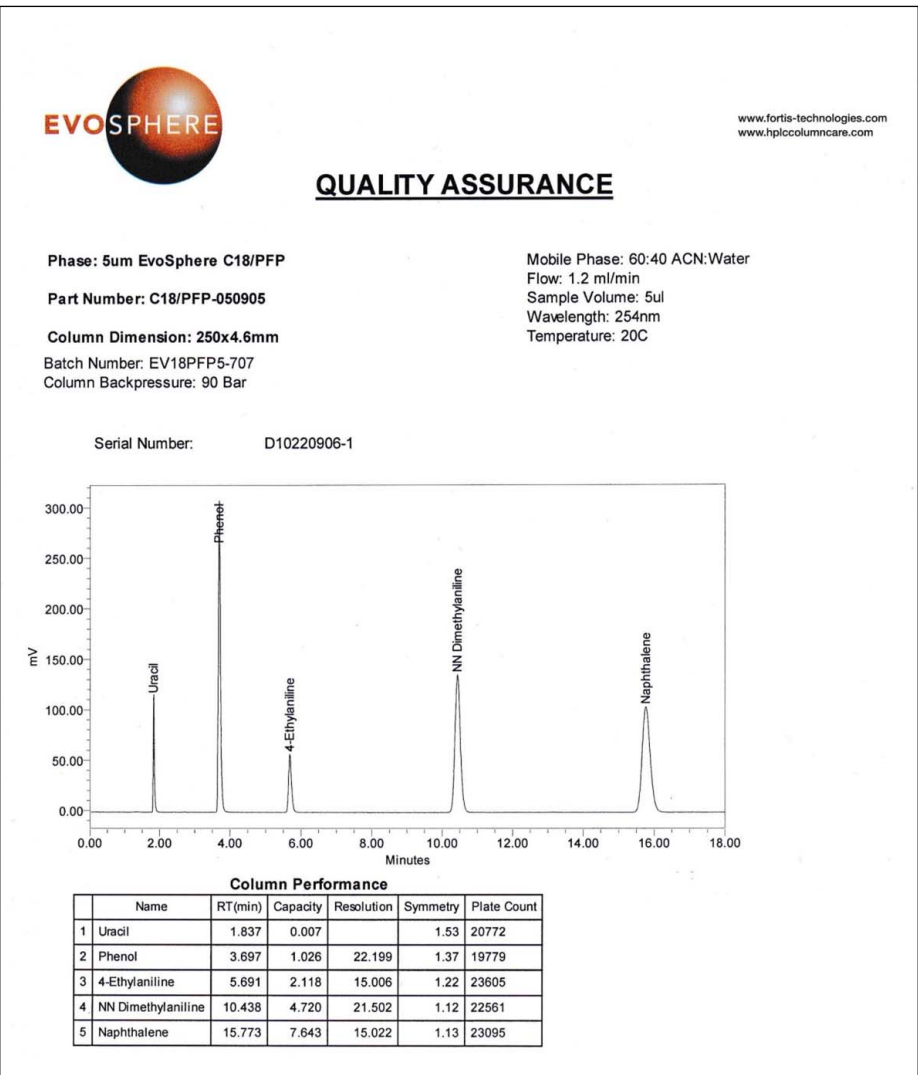
Evosphere columns are rigorously validated in QC to ensure even more robust column-to-column and batch-to-batch reproducibility. Each column is individually QC documented ensuring it meets our tight specifications on peak shape, efficiency and retention time.

One of the major stumbling blocks in new method development is producing robust, reproducible methods. Having a fully validated certified column is one way towards ensuring that these risks are mitigated. Evosphere columns are individually QC tested and can also be purchased in method validation kits (MVK) with 3 different batches of stationary phase to ensure you can define robust parameters for your new method.

Evosphere High performance columns

Evosphere® columns contain an ultrapure Type B monodisperse porous silica support with a uniform smooth surface, the high degree of monodispersity generates very high efficiency HPLC performance due to the reduced flow path dispersion (Eddy diffusion) within the column. The broad range of Evosphere stationary phase selectivity's available provide the capability to resolve more compounds in less time, whilst at the same time achieving greater sensitivity. They also provide the capability to remove the need for IP reagents and inorganic buffers from the mobile phase due to the increased interaction mechanisms possible. By utilising simple mobile phases the reproducibility of a method should also be enhanced since a major variable has been removed.

Monodisperse Evosphere particles are available in 1.7µm, 3µm and 5µm particle sizes.



QC Validation



Comprehensive testing

Individually tested columns allow the analyst to have faith that there will be better reproducibility column-to-column not just batch-to-batch. Validation documents provide a guarantee that meets the needs of GLP/GMP compliance.

“Having a fully Validated column leads to more re-
producibility and robust-
ness”

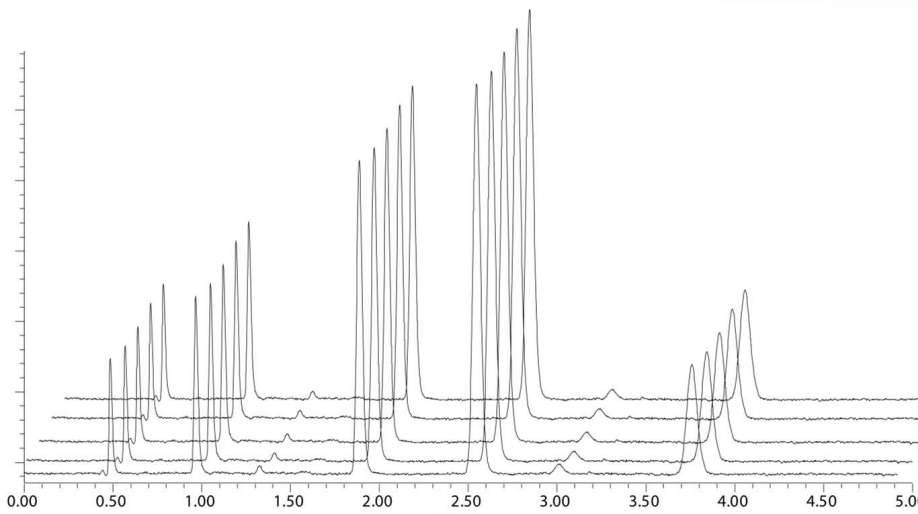


Figure 1. Reproducibility column-to-column 3µm Evosphere C18/AR 150x4.6mm

QC conditions

3µm Evosphere C18/AR 150x4.6mm

Mobile phase

A: ACN

B: Water

Isocratic: 60:40

Flow Rate: 1.0ml/min

Temp: 25°C

Detection: 254nm

Summary

Evosphere is built around a monodisperse fully porous silica particle (MFPP). The monodisperse nature leads to very high efficiencies and sharp peaks. The orthogonal stationary phase selectivities can be used to the analyst's advantage when complex mixtures are involved.

Combining these performance qualities along with full validation QC testing gives assurance that methods will be of the highest quality and perform for many years to come.

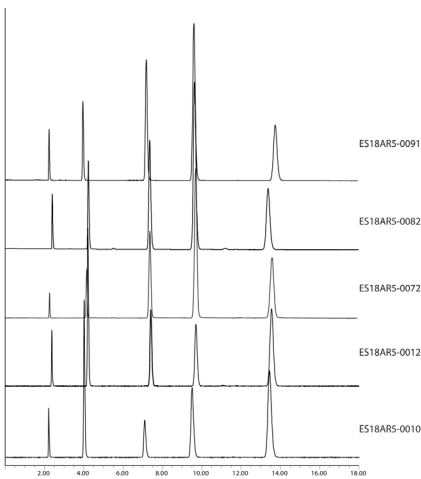


Figure 2. Batch-to-batch Evosphere C18/AR

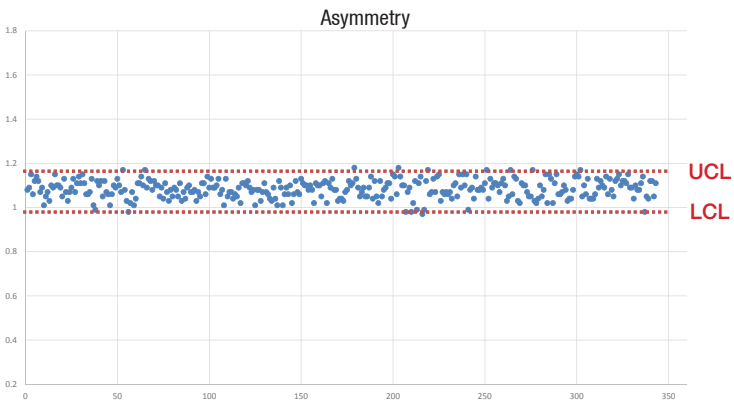


Figure 3. Asymmetry on Evosphere columns

WORLDWIDE AVAILABILITY



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