

Perfect flow distribution with YMC glass columns

An even distribution of the flow is a critical factor in liquid chromatography. Only then can optimal results be accomplished. But how can a homogeneous flow distribution be achieved?

For best separation results, a well-packed column bed, without channels, empty spaces or different packing densities, is important. To achieve this, the selection of the optimal column hardware plays a crucial role. With a frit that has a

fully porous fine structure, an even flow distribution is guaranteed. This provides the best possible packing results and leads to an optimal separation performance of the column. The influence of the flow distribution becomes clear in a direct comparison of a column fitted with a frit and a column that relies on nets: The frit design delivers an excellent packing result and, thus, an improved separation performance. This provides a decisive advantage over other columns!

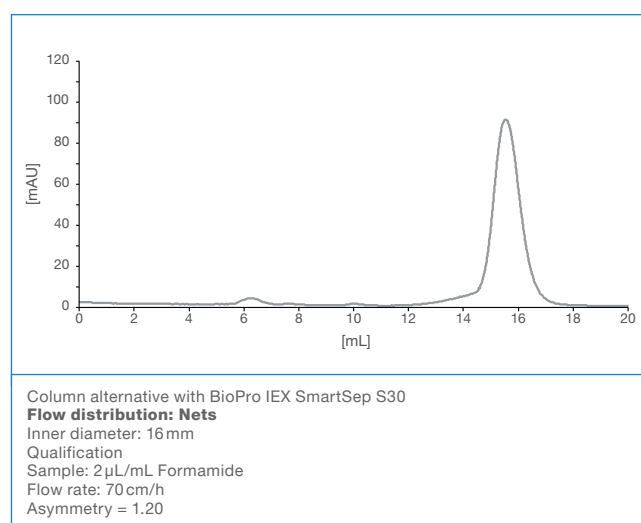
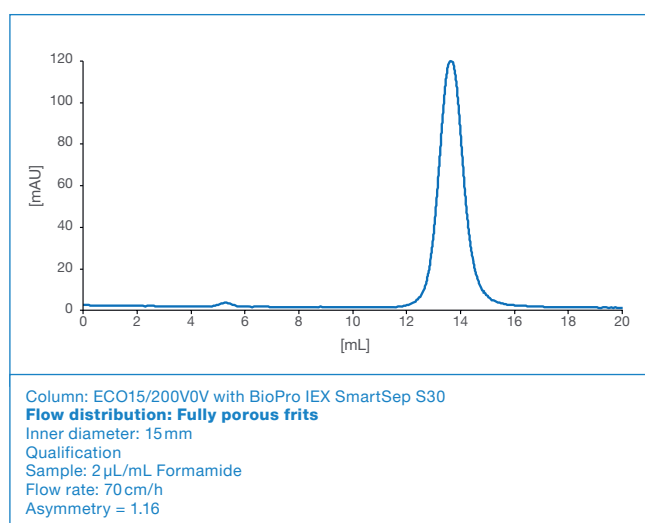


Figure 1: Direct comparison of the chromatograms obtained between an ECO column with frits (left) and an alternative column with nets (right).

Reliable during use, easy to clean

YMC glass columns are all equipped with frits that are securely fixed in the piston of the glass column. This guarantees stable and reliable use during the application which is also confirmed by a pressure test that is carried out for each column as part of quality control.

The unique features: After many runs, frits remain free of contaminations and, if cleaning is necessary, it can be carried out quite easily. Every common method can be used, from ultrasonic treatment to the use of CIP protocols.

Perfectly matched to your application

Frits are available from a number of different materials and with various porosities. This makes it possible to match the column to the particle size and the media to be used.

Whether it is for Bio-LC applications or an application with strong organic solvents - with this variety, every requirement can be met!

Advantages of using frits at a glance:

- **Perfectly packed column bed for excellent separation results**
- **Quick and easy cleaning** with all common cleaning methods
- **Durable and robust materials**
- **Suitable frits for every application**