

Results

The resulting pressure flow curves are shown in Figure 2.

Across the entire flow rate range, the BioPro IEX SmartSep resin provides a lower backpressure which allows for higher applicable flow rates. In addition, the pressure flow curve of BioPro IEX SmartSep S30 suggests reversible compression behaviour over a wide range of linear flow velocities.

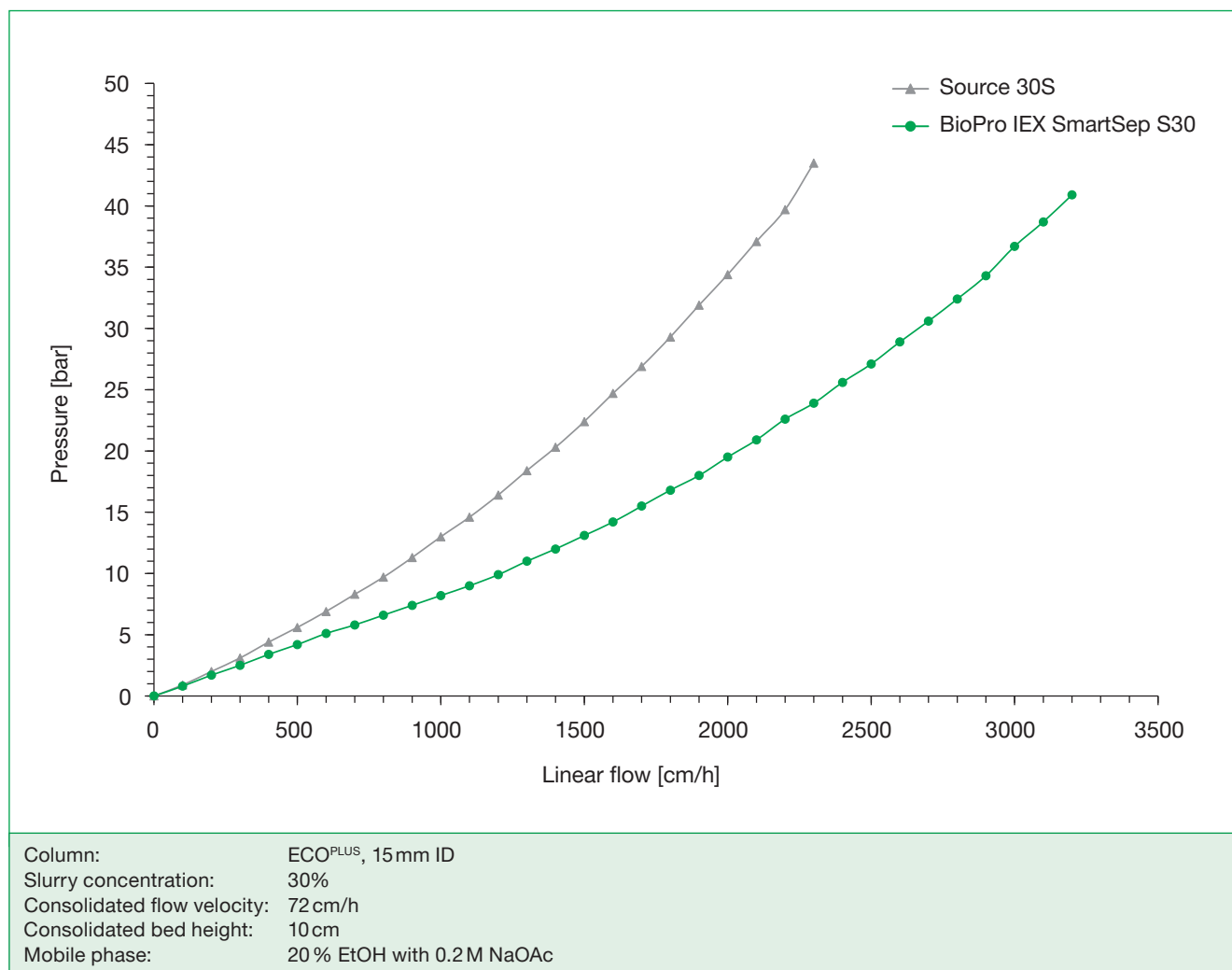


Fig. 2: Pressure flow curves for BioPro IEX SmartSep S30 and Cytiva Source 30S

Conclusion

YMC's BioPro IEX SmartSep S30 shows significantly better pressure flow characteristics. This may be related to the rigidity of the beads used since pressure flow characteristics are mainly based on the physical properties of the base particles.

This allows the BioPro IEX SmartSep resin to be used over a greater range of flow rate and at higher flow rates, increasing productivity. For a pressure range of up to 20 bar (regular use), the YMC resin can be used with flow rates of up to 2,000 cm/h (max. flow rate) for a bed length of 10 cm.