Customer: Pharmaceutical research center, India
This large Indian pharmaceutical company focuses on finding innovative therapies for diseases in areas such as: diabetes, obesity, cardiovascular diseases, inflammation pain, oncology.

Application: Purification of biological samples
The Sepacore system is used to separate rather large molecules such as peptides, macropetides or lipopeptides issued from a fermentation process. The separation is done on various types of columns filled with small particles (15 - 40µm) and with C18 sorbent. Such separations generate rather high back pressures.

Equipment: Sepacore®
Compared to other instruments available on the market the Sepacore system can go up to 50 bar pressure while the maximum pressure in the case of others is 20 – 30 bar. This enables to use finer silica particles giving better separation and purification which is the main purpose of the instrument. It can be used as a semi-prep HPLC.

Benefit / Conclusion:
It is a replacement of open column chromatography. Time saving is the biggest benefit that can provide BUCHI Sepacore System. Previously for a separation it cost a day or more. Now the separation can be done within a couple of hours. Reusability of the columns is a big advantage. The easy column filling procedure means there is no need to stock packed columns.

*Thanks to the high pressure rating of the Sepacore system, it is possible to purify complex biological samples on reversed phase columns. This solution is a very cost-efficient process, in comparison with preparative HPLC.*