

**ABSTRACT**

**Purification of synthetic oligonucleotides using continuous chromatography (MCSGP)**

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With oligonucleotides moving out of the orphan drug niche, there is an observable trend to larger drug substance volumes. Only application of new technologies will allow sustainable manufacturing of such large volumes. MCSGP is a breakthrough technology for purification that can be applied for anion exchange (AEX) or hydrophobic interaction chromatography (HIC). Its application for the AEX purification of an oligonucleotide will be discussed in case study comprising method development and manufacturing of a small batch.