COMPARISON OF ALTERNATIVE SINGLE USE HARVEST TECHNOLOGIES FOR LARGE SCALE HARVESTS OF MAMMALIAN CELL CULTURE PROCESSES

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In a fully disposable facility where the use of continuous disk-stack centrifuges are not preferred, harvest processes based on conventional depth filtration become more challenging with increasing single-use bioreactor (SUB) size and higher density culture. Here, several alternative single-use harvest technologies were evaluated. A disposable centrifuge and a range of different synthetic depth filters were tested. Results showed significant improvement in filterability and reduction of depth filter area compared to full traditional depth filtration train.