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Tangential flow filtration for the recovery of acellular *pertussis* vaccine components

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The commercial preparation of acellular *pertussis* vaccine depends on the effective recovery and purification of antigens *pertussis* toxin (PT), filamentous agglutinin (FHA) and pertactin (PRN) from *Bordetella pertussis* fermentation. This study describes the recovery of antigens using an open channel 0.45 micron tangential flow filtration module with optimization of process parameters of transmembrane pressure, cross flow and flux. Under the optimized conditions, greater than 98% recovery of PT and FHA was obtained.

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