

Separation of Sub-Micron Particles on Filtering Centrifuges

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ABSTRACT

The development of new drugs and APIs is becoming more complex. The APIs become more *active* and the molecules and particles are getting finer, which makes the solid liquid separation even more difficult. Beside chemical synthesis also biotechnology becomes more popular. One example are peptides, this short molecules formed from the linking of amino acids. Peptides have received prominence in molecular biology in recent times for several reasons. The first and most important is that peptides allow the creation of *peptide antibodies* in animals without the need to purify the protein of interest. This involves synthesizing antigenic peptides of sections of the protein of interest. Inhibitory peptides are also used in clinical research to examine the effects of peptides on the inhibition of cancer proteins and other diseases.

In this paper will be described how peptides with particles sizes of less than 1 μm can be separated by an inverting filter centrifuge with high g-forces and pressure added centrifugation PAC.