iba Solutions For Life Sciences

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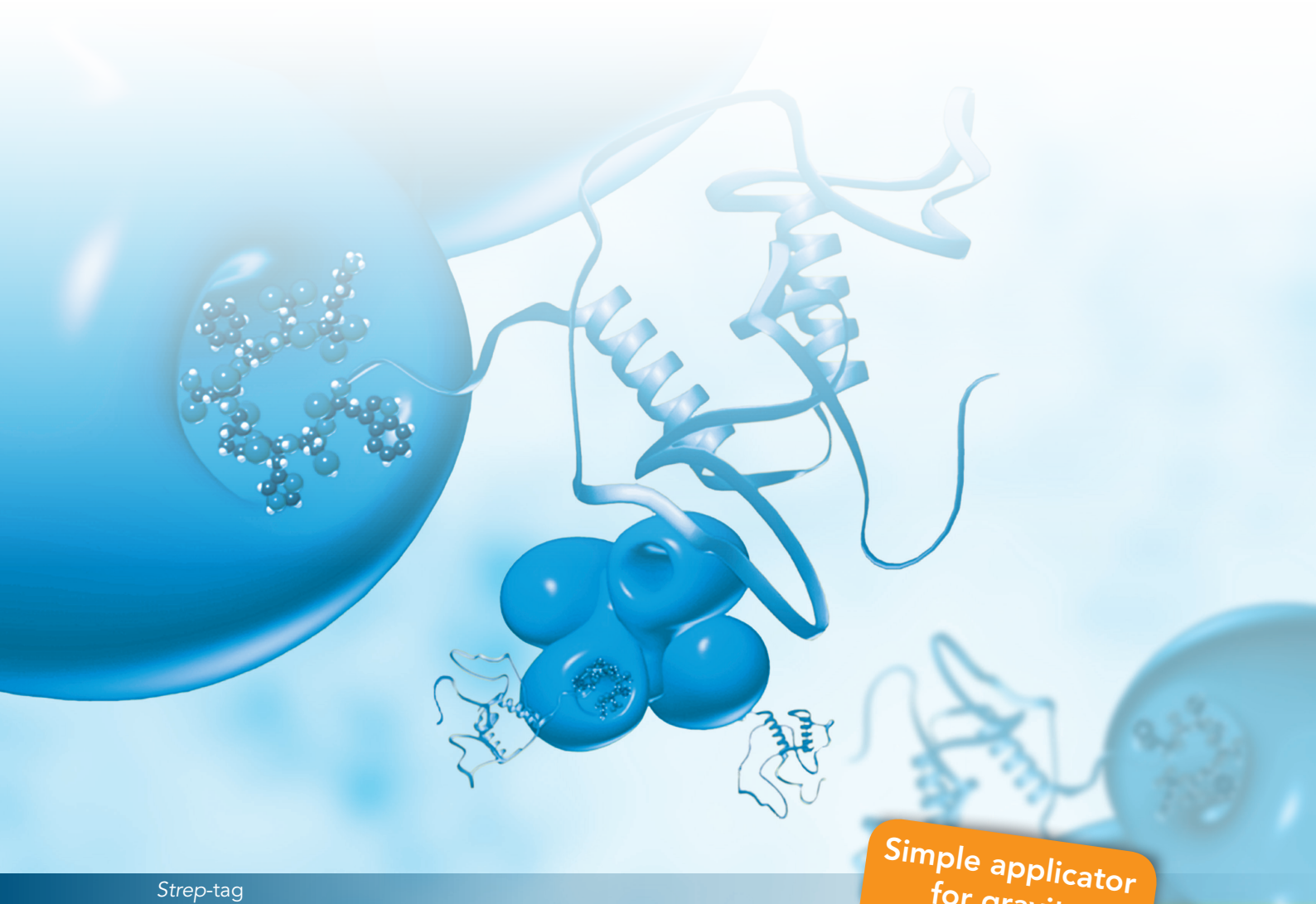
Product information

LET *WET FRED* DO IT!



Simple applicator for gravity flow columns

Strep-tag

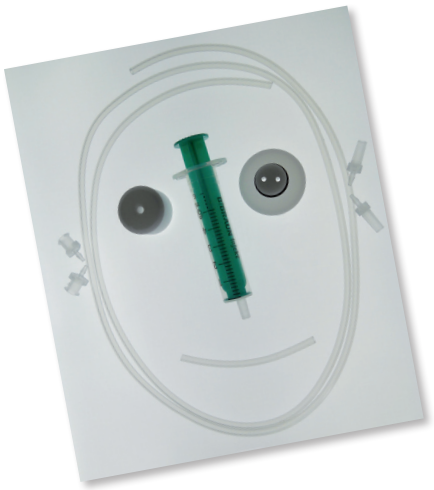


Fig.1 WET FRED components

Mammalian or insect cell expression systems are often used to produce recombinant proteins through secretion to the cell culture medium. As a result, target proteins occur highly diluted and large volumes have to be processed. Concentration and purification in one step via (*Strep*-Tactin affinity) chromatography is attractive to facilitate and rapidly enable further use of the target protein. This avoids the need for any separate concentration step which is often accompanied with significant protein losses.

However, expensive chromatography workstations are commonly used for the time consuming and trivial step to guide bulk medium over a purification column making them inaccessible for more sophisticated applications. This is inefficient and limits the throughput of a protein purification lab. Moreover, workstations are immobile and inflexible and need an experienced user for handling. Finally, special columns or cartridges are required which are more expensive than standard columns

WET FRED accomplishes this task in a more simple way using gravity flow columns in contrast to chromatography workstations and has the following advantages:

- WET FRED is simple and saves money.
- WET FRED needs no electricity and can be used at any place like the bench, the cold room or in the fridge.
- due to its set-up and low price it is applicable for single but also for parallel purifications.
- columns cannot run dry and need no supervision.
- no sophisticated software is needed facilitating set up and use.

Cat. No.	
2-0910-001	For 5ml & 10ml columns
2-0911-001	For 1ml columns

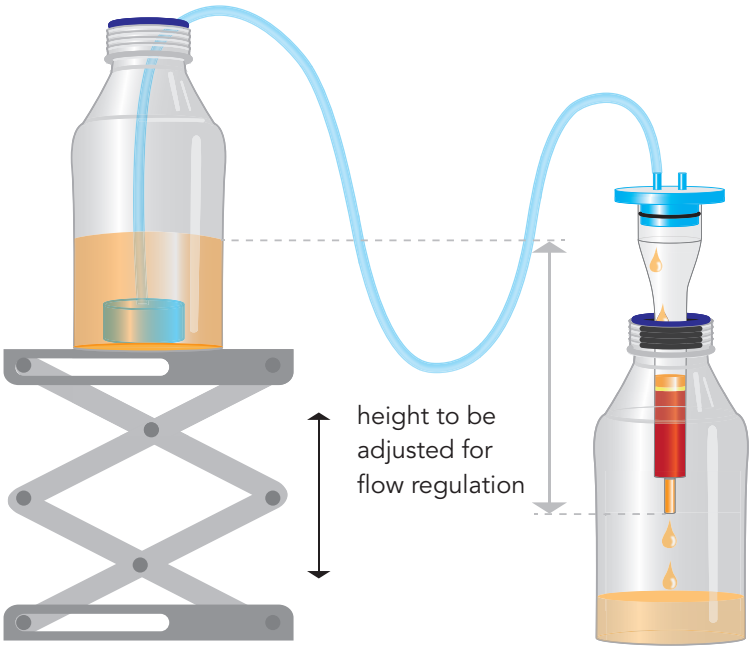


Fig.2 The WET FRED set-up works simply by hydrostatic pressure (siphon principle). A tube connects the bottle containing the cell culture supernatant and the gravity flow column. Both are placed on different levels. Due to the siphon principle the liquid flows through the tube from the cell culture supernatant to the gravity flow column. The flow rate can be regulated by adjusting the height between the cell culture supernatant and the outlet of the column. Regulation of the flow rate is important for an optimal binding and elution of the recombinant protein.

More information:
www.strep-tag.com

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