

A continuous process of dynamic high-pressure homogenization for the denaturation of proteins

The present invention relates to a continuous process for denaturation of proteins, which comprises the steps of:

- a) subjecting a protein solution to a high pressure homogenizer at a pressure of about 500 to about 5000 bar, at a recirculation ranging from 0 to about 50 and at a temperature ranging from about 20°C to about 80°C for a period, on the order of milliseconds, wherein the protein solution consisting of a protein fraction dispersed in water, buffer or salt solution at a concentration ranging from about 2% to about 35% w/w and at a pH adjusted between about 2.0 to about 12.0;
 - b) concentrating the protein solution by i) evaporation, ii) ultrafiltration and sprayed dried or iii) ultrafiltration and freeze dried.
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