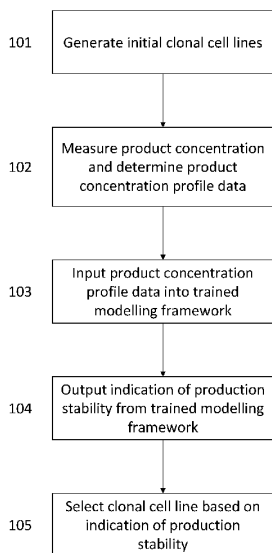




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(54) **Title:** METHOD FOR PREDICTING PRODUCTION STABILITY OF CLONAL CELL LINES



(57) **Abstract:** The invention relates to a method for selecting a clonal cell line for use in production of a therapeutic protein, the method comprising the steps of measuring, for a plurality of clonal cell lines, a product concentration of each clonal cell line; determining, based on the product concentration, product concentration profile data of each clonal cell line, inputting the product concentration profile data into a learning model comprising a modelling framework, wherein the modelling framework comprises multivariate latent variable modelling, multiway analysis structure, and evolving models structure; generating, using the learning model, an output indicating a production stability of each clonal cell line; and selecting, based on the output, a clonal cell line for use in production of a therapeutic protein product. The invention also relates to a system for determining clonal cell line production stability or selecting a clonal cell line.

FIG. 1

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