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Abstract

SEPARATION METHOD

A method of separating a fluorescent protein from a sample containing a plurality of proteins containing the fluorescent protein is provided. The method comprising: preparing a sample solution by adding the sample to a liquid; preparing an adsorption apparatus having a filling space for filling an adsorbent having a surface, wherein at least the surface of the adsorbent is constituted of a calcium phosphate-based compound and at least a part of the filling space is filled with the adsorbent; supplying the sample solution into the filling space of the adsorption apparatus so that the plurality of proteins are adsorbed by the adsorbent; supplying a phosphate elution buffer for eluting the fluorescent protein contained in the plurality of proteins from the adsorbent into the filling space of the adsorption apparatus to thereby obtain an eluant containing the fluorescent protein; and fractionating the eluant which is discharged from the filling space of the adsorption apparatus into a portion of the phosphate elution buffer containing the fluorescent protein and other portions thereof to thereby separate the fluorescent protein from the plurality of proteins. According to the present invention, it is possible to separate a large amount of the fluorescent protein from the sample containing the plurality of proteins containing the fluorescent protein with high purity by a simple operation.

FIG. 1