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(54) Title: SEPARATION AND CONCENTRATION SYSTEMS BASED ON SOLUBLE OLIGOSACCHARIDE BINDING DOMAINS

(57) Abstract

Novel methods for separating and/or purifying biological compositions are provided. The biological compositions comprise a polysaccharide binding peptide and can be synthesized in whole or in part or prepared by recombinant DNA technology. In the method, a solution containing the biological composition is mixed with a phase-forming oligosaccharide to which the binding peptide binds and phase separation is induced. The phase containing the biological composition is then isolated. Phase separation is induced using a phase separation inducing agent or, when the oligosaccharide polymer is a thermoseparating polymer, by increasing the temperature above the cloud point temperature of the polymer.