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(54) Title: COMPOSITIONS AND METHODS USING IN-SITU COMPLEXATION OF AN EXOGENOUS MINERAL WITH MILK CASEIN IN LIQUID FORM

(57) Abstract: A method of in-situ complexation of an exogenous mineral with milk casein in liquid form for fortification in a dairy product with increased bioavailability of the exogenous mineral. The method includes adding exogenous phosphorus and the exogenous mineral to at least one material containing the milk casein, such as a mammalian milk containing the milk casein, to form a composition containing a soluble complex. At least one additional ingredient is present during the adding of the exogenous phosphorus and the exogenous mineral to the at least one material to form the composition containing the soluble complex. The soluble complex contains (i) at least a portion of the exogenous mineral, (ii) at least a portion of the milk casein, and (iii) at least a portion of the exogenous phosphorus; and the soluble complex has micellar structure.



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