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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person or persons having title to this patent the right to exclude others from making, using or selling the invention throughout the United States of America for the term of seventeen years from the date of this patent, subject to the payment of maintenance fees as provided by law.

Bruce Lehman

Commissioner of Patents and Trademarks

Kenneth J. Cooper

Attest



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United States Patent [19]

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Bounous et al.

[45] Date of Patent: * Sep. 19, 1995

[54] BIOLOGICALLY ACTIVE UNDENATURED WHEY PROTEIN CONCENTRATE AS FOOD SUPPLEMENT

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[*] Notice: The portion of the term of this patent subsequent to Jul. 27, 2010 has been disclaimed.

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[22] Filed: Jun. 29, 1993

Related U.S. Application Data

[60] Division of Ser. No. 417,246, Oct. 4, 1989, Pat. No. 5,290,571, which is a continuation-in-part of Ser. No. 289,971, Dec. 23, 1988, abandoned, which is a continuation-in-part of Ser. No. 188,271, Apr. 29, 1988, abandoned.

[51] Int. Cl.⁶ A61K 35/20

[52] U.S. Cl. 424/535; 514/2; 514/21; 514/251; 514/276; 514/885; 530/365; 530/833; 426/72

[58] Field of Search 514/2, 21, 251, 276, 514/885; 530/365, 833; 424/535; 426/72

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[57] ABSTRACT

The present invention is concerned with a whey protein composition comprising a suitable concentration of whey protein concentrate wherein the whey protein concentrate contains proteins which are present in an essentially undenatured state and wherein the biological activity of the whey protein concentrate is dependent on the overall amino acid and small peptides pattern resulting from the contribution of all its protein components and a method of producing said whey protein composition. The invention also relates to several applications of said composition.

2 Claims, 9 Drawing Sheets