

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 December 2002 (27.12.2002)

PCT

(10) International Publication Number  
**WO 02/102487 A3**

- (51) International Patent Classification<sup>7</sup>: **A61K 35/20**, 38/00
- (21) International Application Number: PCT/US02/18995
- (22) International Filing Date: 17 June 2002 (17.06.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
09/883,648 18 June 2001 (18.06.2001) US
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- (81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— *with international search report*
- (88) Date of publication of the international search report:  
27 March 2003
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: PROCESS FOR PREPARING PROTEIN ISOLATE FROM MILK, WHEY, COLOSTRUM, AND THE LIKE

(57) Abstract: According to the invention, Applicants have identified a clarification process which is simple and quick and provides a protein isolate of greater than 90% whey protein which may then optionally be further purified to select out individual proteins. The process involves a number of steps, in order of which is critical, and novel lipid removal techniques to achieving the highly pure and clarified protein isolate of the invention.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/18995

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A61K 35/20, 38/00

US CL :424/535; 514/2, 21

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/535; 514/2, 21

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---- Y	US 6,096,870 A (MOZAFFAR et al) 01 August 2000, see entire document including col. 12, lines 36-51 and col. 15, lines 9-28.	37-40 ---- 1-36, 41-43
X ---- Y	US 6,168,819 B1 (ZELLER et al) 02 January 2001, see entire document including col 2, line 54 - col 3, line 5.	37-40 ---- 1-36, 41-43
Y	US 5,278,284 A (LUSK et al) 11 January 1994, see entire document.	41-43
Y	Database DWPI on WEST, AN 18810328966, CHUCAI PHARM CO LTD. 'Prepn. of highly transparent <u>whey</u> minerals - comprises adding <u>silica</u> and active carbon to <u>whey</u> liq., and filtering mixt. to <u>remove</u> clouding and ppte(s)'. JP 3,219,835 A, 27 September 1991, DWPI Abstract.	15-36



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

05 OCTOBER 2002

Date of mailing of the international search report

19 DEC 2002

Name and mailing address of the ISA/US  
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