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GLOBAL

PATENTS

Canada

**Brevets canadiens* /
Canadian Patents* /
Patentes canadienses***

**1,333,471
1,338,682
2,090,186
2,142,277
2,176,946**

***Pour le texte intégral des brevets, tapez: /For the full text of the patents please go to :
<http://www.cipo.ic.gc.ca>**



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Intellectual Property
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Brevet canadien / Canadian Patent

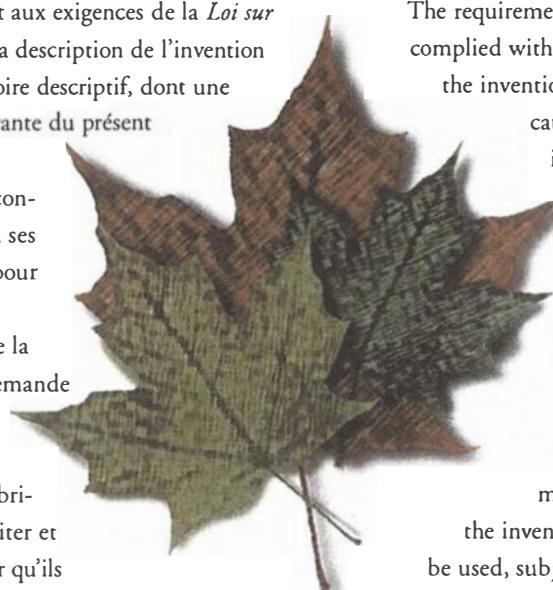
Le commissaire aux brevets a reçu une demande de délivrance de brevet visant une invention. Ladite requête satisfait aux exigences de la *Loi sur les brevets*. Le titre et la description de l'invention figurent dans le mémoire descriptif, dont une copie fait partie intégrante du présent document.

Le présent brevet confère à son titulaire et à ses représentants légaux, pour une période expirant vingt ans à compter de la date du dépôt de la demande au Canada, le droit, la faculté et le privilège exclusif de fabriquer, construire, exploiter et vendre à d'autres, pour qu'ils l'exploitent, l'objet de l'invention, sauf jugement en l'espèce rendu par un tribunal compétent, et sous réserve du paiement des taxes périodiques.

The Commissioner of Patents has received a petition for the grant of a patent for an invention.

The requirements of the *Patent Act* have been complied with. The title and a description of the invention are contained in the specification, a copy of which forms an integral part of this document.

The present patent grants to its owner and to the legal representatives of its owner, for a term which expires twenty years from the filing date of the application in Canada, the exclusive right, privilege and liberty of making, constructing and using the invention and selling it to others to be used, subject to adjudication before any court of competent jurisdiction, and subject to the payment of maintenance fees.



BREVET CANADIEN

1,333,471

CANADIAN PATENT

Date à laquelle le brevet a été accordé et délivré

1994/12/13

Date on which the patent was granted and issued

Date du dépôt de la demande

1989/04/27

Filing date of the application

Commissaire aux brevets / Commissioner of Patents

Canada

3256 (CIPO 91)

O P I C CIPO

597956

1333471

DEC 13 1994

ABSTRACT OF THE DISCLOSURE

Effect of dietary whey protein (lactalbumin) on
the immune response to sheep red blood cells, host
resistance to bacterial infections, development of tumors
and the process of aging.

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Brevet canadien / Canadian Patent

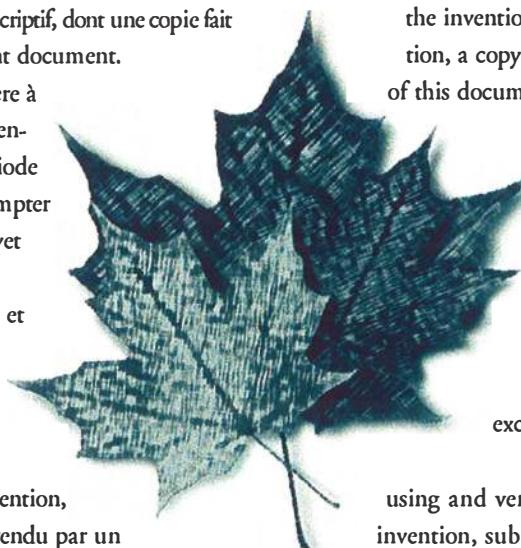
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BREVET CANADIEN

1338682

CANADIAN PATENT

Date à laquelle le brevet a été accordé et délivré

1996/10/29

Date on which the patent was granted and issued

Commissaire aux brevets / Commissioner of Patents

29 OCT. 1996

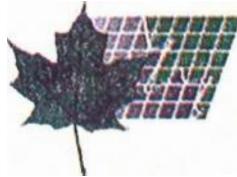
1338682

614239

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.

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Brevet canadien / Canadian Patent

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BREVET CANADIEN

2,090,186

CANADIAN PATENT

Date à laquelle le brevet a été accordé et délivré

1999/03/16

Date on which the patent was granted and issued

Date du dépôt de la demande

1993/02/23

Filing date of the application

Date à laquelle la demande est devenue accessible au public pour consultation

1993/10/11

Date on which the application was made available for public inspection

Commissaire aux brevets / Commissioner of Patents



(11)(21)(C) **2,090,186**
(22) 1993/02/23
(43) 1993/10/11
(45) 1999/03/16

(72) Bounous, Gustavo, CA

(72) Gold, Phil, CA

(73) Immunotec Research Corporation Ltd., CA

(51) Int.Cl.⁶ A61K 39/395, A23L 1/305, A61K 35/20

(30) 1992/04/10 (866,756) US

**(54) METHODE DE TRAITEMENT DE SUJETS SEROPOSITIFS
POUR LE VIH A L'AIDE DE PROTEINES DU LACTOSERUM**

**(54) METHOD OF TREATMENT OF HIV-SEROPOSITIVE
INDIVIDUALS WITH DIETARY WHEY PROTEINS**

(57) Un concentré protéinique non caséique est administré à des individus VIH séropositifs pour augmenter le nombre de cellules sanguines mononucléaires, le taux de glutathione (GSH), le poids corporel et la sensation de bien-être. De plus, la concentration des lymphocytes T-4 et le rapport lymphocytes T-4/lymphocytes T-supresseurs se trouvent légèrement augmentés.

(57) Undenatured whey protein concentrate is administered to HIV-seropositive individuals to elevate their blood mononuclear cells, glutathione (GSH) level, body weight and sense of well being. In addition T-helper cells concentration and their T-helper cells; T-suppressor cells ratio are slightly elevated.





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Brevet canadien / Canadian Patent

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BREVET CANADIEN

2,142,277

CANADIAN PATENT

Date à laquelle le brevet a été accordé et délivré

2000/01/18

Date on which the patent was granted and issued

Date du dépôt de la demande

1993/08/05

Filing date of the application

Date à laquelle la demande est devenue accessible au public pour consultation

1994/03/03

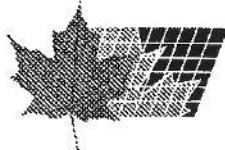
Date on which the application was made available for public inspection

Commissaire aux brevets / Commissioner of Patents

Canada

3256 (CIP 91)

O P I C C I P O



(11) (21) (C) 2,142,277

(22) 1993/08/05

(43) 1994/03/03

(45) 2000/01/18

(72) Bounous, Gustavo, CA

(72) Gold, Phil, CA

(73) Immunotec Research Corporation Ltd., CA

(51) Int.Cl.⁶ A61K 35/20

(30) 1992/08/13 (07/929,347) US

(54) **COMPOSITIONS THERAPEUTIQUES ANTICANCEREUSES,
POUR LA PRÉVENTION OU LE TRAITEMENT DU CANCER**

(54) **ANTI-CANCER THERAPEUTIC COMPOSITIONS FOR
PROPHYLAXIS OR FOR TREATMENT OF CANCER**

(57) This invention relates to a method of treatment of patients having lesions resulting from cancer cells and to an application as an anti-cancer composition of undenatured whey protein concentrate.



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Brevet canadien / Canadian Patent

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BREVET CANADIEN

2,176,946

CANADIAN PATENT

Date à laquelle le brevet a été accordé et délivré

2006/02/07

Date on which the patent was granted and issued

Date du dépôt de la demande

1994/12/23

Filing date of the application

Date à laquelle la demande est devenue accessible au public pour consultation

1995/07/06

Date on which the application was made available for public inspection

Commissaire aux brevets / Commissioner of Patents

Canada

3256 (CIPO 91) 02/05

O P I C CIPO



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CA 2176946 C 2006/02/07

(11)(21) 2 176 946

(12) BREVET CANADIEN
CANADIAN PATENT

(13) C

(86) Date de dépôt PCT/PCT Filing Date: 1994/12/23
(87) Date publication PCT/PCT Publication Date: 1995/07/06
(45) Date de délivrance/Issue Date: 2006/02/07
(85) Entrée phase nationale/National Entry: 1996/05/17
(86) N° demande PCT/PCT Application No.: CA 1994/000726
(87) N° publication PCT/PCT Publication No.: 1995/017830
(30) Priorités/Priorities: 1993/12/30 (08/175,637) US;
1994/09/30 (08/315,904) US

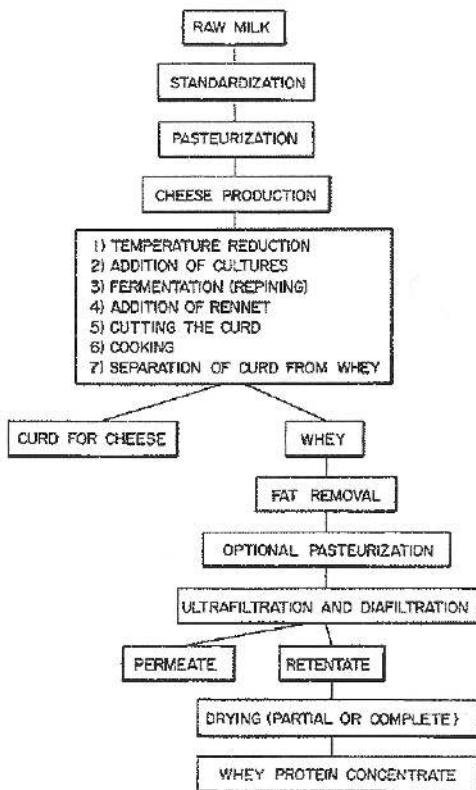
(51) Cl.Int./Int.Cl. A23J 1/20 (2000.01),
A23L 1/305 (2000.01), A23C 19/05 (2000.01),
A23C 9/142 (2000.01)

(72) Inventeurs/Inventors:
BOUNOUS, GUSTAVO, CA;
LANGE, MICHEL, CA

(73) Propriétaire/Owner:
2458781 CANADA INC., CA

(74) Agent: GOWLING LAFLEUR HENDERSON LLP

(54) Titre : PROCEDE DE PRODUCTION D'UN CONCENTRE DE PROTEINES NON DENATUREES DE LACTOSERUM
(54) Title: PROCESS FOR MAKING UNDENATURED WHEY PROTEIN CONCENTRATE



(57) Abrégé/Abstract:

A process for producing an undenatured whey protein concentrate as a by-product in making cheese to give a whey protein concentrate having a serum albumin content of about 9 % or more involving control of the temperature and other factors.

Etats-Unis /

United States

Brevets américains* /

American Patents* /

Patentes de los EE.UU.*

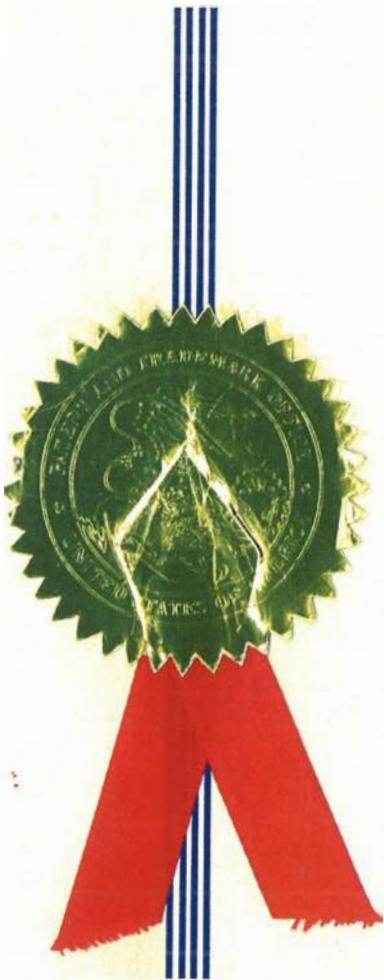
5,230,902 5,888,552

5,290,571 5,846,939

5,451,412 5,744,157

5,456,924 6,927,231

*The
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of
America*



The Commissioner of Patents
and Trademarks

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.

Michael R. Kink

Acting Commissioner of Patents and Trademarks

Sandra Z. Morton
Attest



US005230902A

United States Patent [19]
Gold et al.

[11] Patent Number: 5,230,902
[45] Date of Patent: Jul. 27, 1993

- [54] UNDENATURED WHEY PROTEIN CONCENTRATE TO IMPROVE ACTIVE SYSTEMIC HUMORAL IMMUNE RESPONSE
- [75] Inventors: Phil Gold, Westmount; Gustavo Bounous, Montreal; Patricia A. L. Kongshavn, St. Lambert, all of Canada
- [73] Assignee: Immunotec Research Corporation, Montreal, Canada
- [21] Appl. No.: 563,794
- [22] Filed: Aug. 3, 1990

1495940 12/1977 United Kingdom 424/95

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- Jansen, B. C. P. in *The Vitamins*, 2d ed., vol. V., Academic Press, New York, 1972, pp. 156-164.
- Bounous et al. J Nutr 112(9):1747-1755 (1982).
- Bounous et al. J Nutr 113:1415-1421 (1983).
- Bounous et al. J Nutr 115(11):1409-1417 (1985).
- Primary Examiner—Douglas W. Robinson
Assistant Examiner—Jean C. Witz
Attorney, Agent, or Firm—John P. White; Craig J. Arnold

ABSTRACT

This invention provides a method of improving the humoral immune response or increasing the concentration levels of glutathione in mammals, which comprises administering orally to a mammal a therapeutically or a prophylactically effective amount of undenatured whey protein concentrate which has a biological activity based on the overall amino acid and associated small peptides pattern resulting from the contribution of all its protein components. A method for improving the humoral immune response in mammals also is disclosed which comprises administering orally to a mammal the combination of a vitamin supplement containing vitamin B₂ in an amount in excess of minimum daily requirements and an effective amount of undenatured whey protein concentrate. This invention further provides a dietary supplement for a mammal which comprises an effective amount of vitamin B₁ and B₂ and a therapeutically or prophylactically effective amount of whey protein supplement.

- [63] Continuation of Ser. No. 289,971, Dec. 23, 1988, abandoned, which is a continuation-in-part of Ser. No. 188,271, Apr. 27, 1988, abandoned.
- [51] Int. Cl.⁵ A61K 35/10
- [52] U.S. Cl. 424/535; 514/2;
530/365; 530/833
- [58] Field of Search 514/2, 21, 251, 276,
514/885; 530/365, 833; 424/535; 426/72
- [56] References Cited
- U.S. PATENT DOCUMENTS
- 4,710,387 12/1987 Uiterwaal et al. 726/72
4,753,926 6/1988 Lucas et al. 514/251
4,784,685 11/1988 Meister 71/106
- FOREIGN PATENT DOCUMENTS
- 1136919 7/1982 Canada .
0022696 1/1981 European Pat. Off. .
239722 10/1987 European Pat. Off. .
2296428 9/1976 France 514/21
WO87/4050 7/1987 PCT Int'l Appl. .

16 Claims, 9 Drawing Sheets

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The Commissioner of Patents
and Trademarks

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Bruce Lehman

Commissioner of Patents and Trademarks

Jändra J. Morton

Attest



US005290571A

United States Patent [19]

Bounous et al.

[11] Patent Number: 5,290,571

[45] Date of Patent: * Mar. 1, 1994

[54] BIOLOGICALLY ACTIVE WHEY PROTEIN CONCENTRATE

[75] Inventors: Gustavo Bounous, Montreal; Phil Gold, Westmount; Patricia A. L. Kongshavn, St. Lambert, all of Canada

[73] Assignee: Immunotec Research Corporation, Ltd., Quebec, Canada

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

[21] Appl. No.: 417,246

[22] Filed: Oct. 4, 1989

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 289,971, Dec. 23, 1988, abandoned, and a continuation of Ser. No. 188,271, Apr. 28, 1988, abandoned.

[51] Int. Cl.⁵ 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

[56] References Cited

U.S. PATENT DOCUMENTS

4,043,990	8/1977	Melachouris	530/365
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4,784,685	11/1988	Meister	504/110

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239722	10/1987	European Pat. Off.	.
2296428	9/1976	France	.
87/00036	7/1987	PCT Int'l Appl.	.
1495940	12/1977	United Kingdom	.

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Hoffman, K. F.: Zur geschichte der molkenkuren, insbesondere im 17, 18 und 19 Jahrhundert. Med. Monatschr 15: 411-416, 1961.

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(List continued on next page.)

Primary Examiner—Douglas W. Robinson

Assistant Examiner—Jean C. Witz

Attorney, Agent, or Firm—John P. White

[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.

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Bruce Lehman

Commissioner of Patents and Trademarks

Karna L. Cooper

Attest



US005451412A

United States Patent

[19]

Bounous et al.

[11] Patent Number: **5,451,412**

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

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

[75] Inventors: Gustavo Bounous, Montreal; Phil Gold, Westmount; Patricia A. L. Kongshavn, St. Lambert, all of Canada

[73] Assignee: Immunotech Research Corporation, Ltd., Montreal, Canada

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

[21] Appl. No.: 84,304

[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

[56] References Cited**U.S. PATENT DOCUMENTS**

3,922,375 11/1975 Dalan et al. 426/583
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4,112,123 9/1978 Roberts 426/72
4,485,040 11/1984 Roger et al. 260/122
4,497,836 2/1985 Marquardt et al. 426/239
5,084,285 1/1992 Shimatani et al. 426/271

OTHER PUBLICATIONS

Todorovic et al., Mjekarstvo 38(5): 115-123 (1988).
Jones et al., Milchwissenschaft 43(3): 233-235 (1988).

Primary Examiner—Marian C. Knodel

Assistant Examiner—Jean C. Witz

Attorney, Agent, or Firm—John P. White; Matthew J. Golden

[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

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Bruce Lehman

Commissioner of Patents and Trademarks

Kernan J. Cooper

Attest



US005456924A

United States Patent

[19]

Bounous et al.

[11] Patent Number: 5,456,924

[45] Date of Patent: * Oct. 10, 1995

[54] METHOD OF TREATMENT OF
HIV-SEROPOSITIVE INDIVIDUALS WITH
DIETARY WHEY PROTEINS

2033347 5/1992 Canada
0339656 11/1989 European Pat. Off.
0374390 6/1990 European Pat. Off.
8910139 11/1989 WIPO

[75] Inventors: Gustavo Bounous, Montreal; Phil Gold, Westmount, both of Canada

[73] Assignee: Immunotec Research Corporation Ltd., Montreal, Canada

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

[21] Appl. No.: 866,756

[22] Filed: Apr. 10, 1992

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 563,794, Aug. 3, 1990, Pat. No. 5,230,902, which is a continuation of Ser. No. 289,971, Dec. 23, 1988, abandoned, and a continuation-in-part of Ser. No. 417,246, Oct. 4, 1989, Pat. No. 5,290,511, 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. 28, 1988, abandoned.

[51] Int. Cl. 6 A61K 35/20

[52] U.S. Cl. 424/535; 514/2; 514/21;
426/72

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

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Biological Abstracts, vol. 41, Abstract No. 84488, Glauser et al. (Jun. 1991).

Primary Examiner—David M. Naff

Assistant Examiner—Jean C. Witz

Attorney, Agent, or Firm—John P. White

[57] ABSTRACT

Undenatured whey protein concentrate is administered to HIV-seropositive individuals to elevate their blood mononuclear cells glutathione (GSH) level, body weight and sense of well being. In addition T-helper cells concentration and their T-helper cells/T-suppressor cells ratio are slightly elevated.

8 Claims, No Drawings

The United States of America



The Commissioner of Patents and Trademarks

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.

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United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Acting Commissioner of Patents and Trademarks

Maryjane V. Turner

Attest



US005888552A

United States Patent [19]

Bounous et al.

[11] Patent Number: 5,888,552

[45] Date of Patent: Mar. 30, 1999

[54] ANTI-CANCER THERAPEUTIC COMPOSITIONS CONTAINING WHEY PROTEIN CONCENTRATE

[75] Inventors: Gustavo Bounous, Moncal; Phil Gold, Westmount, both of Canada

[73] Assignee: Immunotec Research Corporation Ltd., Quebec, Canada

[21] Appl. No.: 381,975

[22] PCT Filed: Aug. 5, 1993

[86] PCT No.: PCT/CA93/00309

§ 371 Date: May 8, 1995

§ 102(c) Date: May 8, 1995

[87] PCT Pub. No.: WO94/04168

PCT Pub. Date: Mar. 3, 1994

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 929,347, Aug. 13, 1992, abandoned, and Ser. No. 866,756, Apr. 10, 1992, Pat. No. 5,456,924, which is a continuation-in-part of Ser. No. 417,246, Oct. 4, 1989, Pat. No. 5,290,571, which is a continuation-in-part of Ser. No. 289,571, Dec. 23, 1988, abandoned, which is a continuation-in-part of Ser. No. 188,276, Apr. 29, 1988, abandoned, said Ser. No. 929,347, is a continuation-in-part of Ser. No. 417,246.

[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; 530/333; 426/72

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

[56] References Cited

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(List continued on next page.)

Primary Examiner—Jean C. Witz
Attorney, Agent, or Firm—John P. White; Cooper & Dunham LLP

[57] ABSTRACT

This invention relates to a method of treatment of patients having lesions resulting from cancer cells and to an application as an anti-cancer composition of undenatured whey protein concentrate.

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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.

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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

Kernan J. Cooper

Attest



US005846939A

United States Patent [19]

Miclo et al.

[11] Patent Number: 5,846,939
[45] Date of Patent: Dec. 8, 1998

[54] USE OF A DECAPEPTIDE WITH BENZODIAZEPINE-TYPE ACTIVITY FOR PREPARING MEDICINES AND FOOD SUPPLEMENTS

[75] Inventors: Laurent Miclo, Nancy; Emmanuel Perrin, Saulxures-Les-Nancy; Alain Driou, Laxou; Jean-François Boudier, Agny; Catherine Iung, Paris; Guy Linden, Heillecourt, all of France

[73] Assignee: Societe Cooperative Agricole Laitiere D'Artois Et Des Flandres, La Prosperite Ferieré, Arras, France

[21] Appl. No.: 562,979

[22] Filed: Nov. 27, 1995

[30] Foreign Application Priority Data

Nov. 30, 1994 [FR] France 94 14362

[51] Int. Cl.° A61K 38/08

[52] U.S. Cl. 514/15; 530/328

[58] Field of Search 514/15; 530/328; 435/213

[56] References Cited

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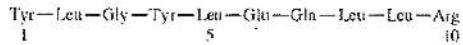
Primary Examiner—Cecilia J. Tsang

Assistant Examiner—Anish Gupta

Attorney, Agent, or Firm—Wolf, Greenfield & Sacks, P.C.

[57] ABSTRACT

The present invention relates to the use of the decapeptide having the amino acid sequence of SEQ ID NO.:1



in the preparation of medicines having benzodiazepine-type activity, particularly useful for the treatment of convulsions and anxiety. The invention also relates to pharmaceutical compositions, food supplements, and foodstuffs for special diets containing the said decapeptide.

4 Claims, 4 Drawing Sheets



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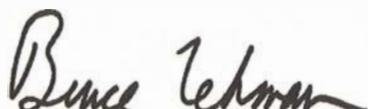
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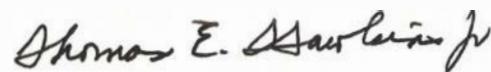
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Bruce Lehman

Commissioner of Patents and Trademarks



Thomas E. Starzl Jr.



US005744157A

United States Patent [19]

Dröge

[11] Patent Number: 5,744,157

[45] Date of Patent: Apr. 28, 1998

[54] PREPARATION FOR MAINTAINING AND/OR INCREASING MUSCULAR POWER AND BODY CELL MASS

[75] Inventor: Wulf Dröge, Heidelberg, Germany

[73] Assignee: The German Cancer Research Institute, Heidelberg, Germany

[21] Appl. No.: 367,332

[22] PCT Filed: Aug. 31, 1993

[86] PCT No.: PCT/EP93/02354

§ 371 Date: Sep. 1, 1995

§ 102(c) Date: Sep. 1, 1995

[87] PCT Pub. No.: WO94/05270

PCT Pub. Date: Mar. 17, 1994

[30] Foreign Application Priority Data

Sep. 1, 1992 [DE] Germany 42 29 166.6.

[51] Int. Cl. 6 A61K 9/127; A61K 47/42

[52] U.S. Cl. 424/450; 424/439

[58] Field of Search 424/439, 450

[56] References Cited

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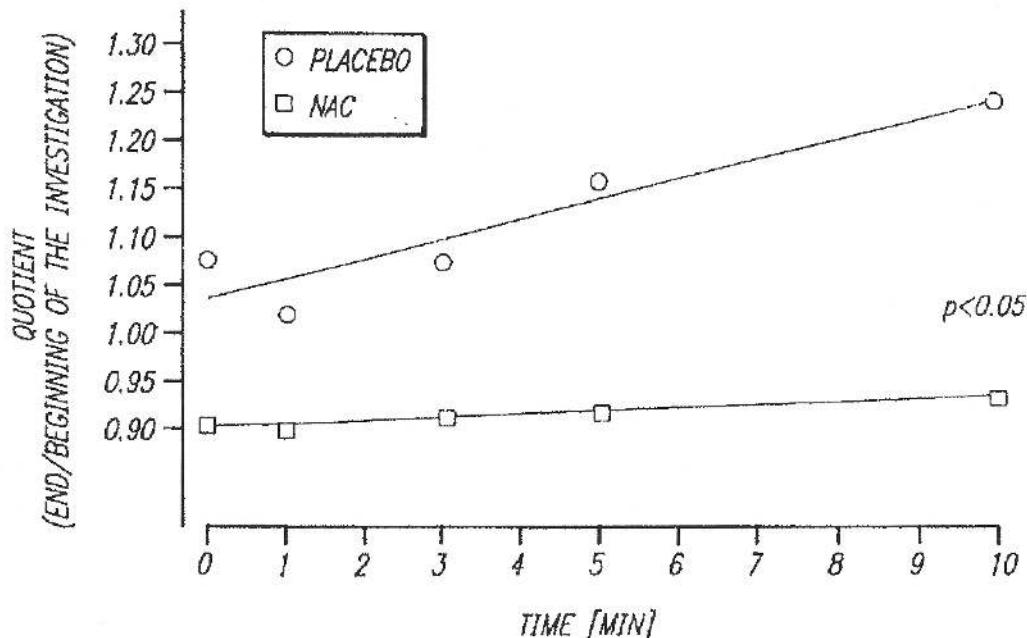
5,292,773 3/1994 Hirsch et al. 514/554

Primary Examiner—Carlos Azpuru
Attorney, Agent, or Firm—Pennie & Edmonds LLP

[57] ABSTRACT

The present invention relates to a preparation for maintaining and/or increasing muscular power and body cell mass, which contains a thiol compound, particularly cysteine, a derivative and/or analogue thereof as well as conventional excipients.

15 Claims, 1 Drawing Sheet



The United States of America



The Director of the United States Patent and Trademark Office

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.

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W. J. Dudas

Director of the United States Patent and Trademark Office



US006927231B2

(12) **United States Patent**
Dröge

(10) **Patent No.:** US 6,927,231 B2
(45) **Date of Patent:** Aug. 9, 2005

(54) **USE OF CREATINE FOR THE
AMELIORATION OF OXIDATIVE STRESS**

(75) Inventor: Wulf Dröge, Heidelberg (DE)

(73) Assignee: 2458781 Canada Inc. (CA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/473,483

(22) PCT Filed: Mar. 28, 2002

(86) PCT No.: PCT/CA02/00435

§ 371 (c)(1),
(2), (4) Date: Mar. 4, 2004

(87) PCT Pub. No.: WO02/085346

PCT Pub. Date: Oct. 31, 2002

(65) **Prior Publication Data**

US 2004/0147610 A1 Jul. 29, 2004

(30) **Foreign Application Priority Data**

Apr. 3, 2001 (DE) 101 16 589

(51) Int. Cl.⁷ A61K 31/415

(52) U.S. Cl. 514/386

(58) Field of Search 514/386, 562,

514/565

(56) **References Cited**

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5,219,846 A 6/1993 Bru et al.

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WO WO 94/16712 8/1994
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WO WO 99/51097 10/1999

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The therapeutic potential of oral creatine supplementation in muscle disease, WYSS, et al., Medical Hypotheses, Eden Press (no date available).

Primary Examiner—Raymond J. Henley, III
(74) Attorney, Agent, or Firm—Schweitzer Cornman Gross & Bondell LLP

(57) **ABSTRACT**

The present invention relates to a method of ameliorating oxidative stress and stress-related degenerative processes associated with aging or various disease conditions such as cancer, neurodegenerative diseases or the dysregulation of redox-regulated physiological processes, as indicated by the prooxidative shift in the plasma thiol/disulfide redox state and its consequences in conditions of elevated oxidative stress, characterized by administering creatine.

8 Claims, 3 Drawing Sheets

International

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*Pour le texte intégral des brevets, tapez: /For the full text of the patents please go to :
<http://www.wipo.int/pctdb/en/>

International

**Undenatured Whey Protein
Concentrate to Improve Active
Systemic Humoral Immune Response**

**Denmark
Germany
Italy
Japan
United Kingdom**



Kongeriget Danmark

Patent nr. PR 172782.

Patentdirektoratet har meddelt patent på den opfindelse, som er angivet i vedlagte patentskrift. På patentskriftets forside findes oplysning om patenthaver, om dagen for bekendtgørelse af patentets meddelelse og om dagen, fra hvilken patentiden løber.

Patentet er meddelt i medfør af patentloven, jf. lovbekendtgørelse nr. 587 af 2. juli 1993.

12. juli 1999

Erhvervsministeriet

Patentdirektoratet

A handwritten signature in blue ink, appearing to read "Mogens Kring".



Mogens Kring
Direktør



(19) BUNDESREPUBLIK
DEUTSCHLAND



DEUTSCHES
PATENTAMT

(12) Übersetzung der
europäischen Patentschrift
(87) EP 0339 656 B1
(10) DE 689 19 114 T 2

(51) Int. Cl. 6:
A 61 K 35/20
A 23 J 1/20

(30) Unionspriorität: (32) (33) (31)

29.04.88 US 188271 23.12.88 US 289971

(73) Patentinhaber:

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CA

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Dr.rer.nat., Pat.- u. Rechtsanw.; Graf, M., Dr.jur.,
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(84) Benannte Vertragstaaten:

AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

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Bounous, Gustavo, Montreal, Quebec H3G 1A7, CA;
Kongshavn, Patricia L., St. Lambert, Quebec J4P
2S2, CA

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DE 689 19 114 T 2

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OGGETTO: Traduzione del testo del brevetto europeo n. 0 339 656 (num. pubblicazione)
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classificazione: A 61 K 37/00 - A 23 L 1/305

Milano, 16 GENNAIO 1995

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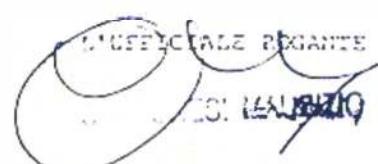
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平成〇一年 特許願第112798号

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特許第2510724号

発明の名称

ホエイ坦ん白濃縮物による動物の宿主抵抗性の改良方法

特許権者

カナダ国ケベック州、モントリオール シャーブルック ストリート、ウエスト、

1010 スイート 1602

国籍 カナダ国

イミューノテック、リサーチ、コーポレーション、リミテッド

発明者

フィル ゴールド

グスタボ ボウノウス

パトリシア エル・コングシャブン

この発明は、特許するものと確定し、特許原簿に登録されたことを証する。

平成 8年 4月16日

清川

七

四



特許 証

特許 第 2510724 号

発明の名称

ホエイたん白濃縮物による動物の宿主抵抗性の改良方法

特許権者

カナダ国ケベック州、モントリオール シャーブルック ストリート、ウエスト、
1010 シード 1602

国籍 カナダ国

イミューノテック、リサーチ、コーポレーション、リミテッド

発明者

フィル ゴールド
グスタボ ボウノウス
パトリシア エル・コングシャブン

この発明は、特許するものと確定し、特許原簿に登録されたことを証する。

平成 8年 4月16日

清川 人吉

人吉

清川





Europäisches
Patentamt

European
Patent Office

Office européen
des brevets

Urkunde Certificate Certificat

Es wird hiermit bescheinigt, daß für die in der beigefügten Patentschrift beschriebene Erfindung ein europäisches Patent für die in der Patentschrift bezeichneten Vertragsstaaten erteilt worden ist.

It is hereby certified that a European patent has been granted in respect of the invention described in the annexed patent specification for the Contracting States designated in the specification.

Il est certifié qu'un brevet européen a été délivré pour l'invention décrite dans le fascicule de brevet ci-joint, pour les Etats contractants désignés dans le fascicule de brevet.

Europäisches Patent Nr.

0339656

European Patent No.

Brevet européen n°

Patentinhaber

IMMUNOTEC RESEARCH CORPORATION LTD.
1010 Sherbrooke St. West, Suite 1602
Montreal, Quebec H3A 2R7/CA

Proprietor of the Patent

Titulaire du brevet

München, den
Munich,
Fait à Munich, le

02.11.94

Paul Braendli

Präsident des Europäischen Patentamts
President of the European Patent Office
Président de l'Office européen des brevets

International

Method of Treatment of HIV-Seropositive Individuals with Dietary Whey Proteins

Australia

Austria

Chile

China

Czech Republic

Denmark

Germany

Israel

Japan

Mexico

Norway

South Korea

Spain

Sweden

Taiwan

United Kingdom



Commonwealth
of Australia

Letters patent

Patents Act 1990

No.
687731

STANDARD PATENT

I, Bruce Ian Murray, Commissioner of Patents, grant a Standard Patent with the following particulars:

Name and Address of Patentee:

Immunotec Research Corporation Ltd., 292 Adrien Patenaude, Vaudreuil-Dorion, Quebec J7V 5V5 Canada

Names of Actual Inventors: Phil Gold and Gustavo Bounous

Title of Invention: Method of treatment of HIV-seropositive individuals with dietary whey protein

Application Number: 38812/93

Term of Letters Patent: Twenty years commencing on 22 March 1993

Priority Details:

Number
866756

Date
10 April 1992

Filed with
UNITED STATES OF AMERICA

Dated this 27 day of August 1998



B.I.MURRAY
COMMISSIONER OF PATENTS

(12) Übersetzung der europäischen
PATENTSCHRIFT
(97) Veröffentlichungsnummer: EP 0 634 934 B1

(96) Anmeldenummer: 93907682

(51) Int.Cl.⁷: A61K 35/20
A61K 38/00, 39/395

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(45) Ausgabetag: 10. 3.2000

(54) VERWENDUNG VON DIÄTETISCHEN MOLKEPROTEINEN ZUR BEHANDLUNG VON HIV SEROPOSITIVEN INDIVIDUEN

(30) Priorität:

10. 4.1992 US 866756

(97) Veröffentlichungstag der Anmeldung:

25. 1.1995, Patentblatt 95/04

(97) Bekanntmachung des Hinweises auf die Patenterteilung:

8.12.1999, Patentblatt 99/49

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AT CH DE DK ES GB LI LU NL SE

(56) Entgegenhaltungen:

EP-A -0339656 EP-A -0374390
BIOLOGICAL ABSTRACTS, VOL. 41, PHILADELPHIA,
PA, US; ABSTRACT, NO. 84485, VOSS T. ET AL.
'MANAGEMENT OF HIV RELATED WEIGHT LOSS AND
DIARRHEA WITH AN ENTERAL FORMULA CONTAINING
WHEY PEPTIDES AND MEDIUM-CHAIN TRIGLYCERIDES.'
BIOLOGICAL ABSTRACTS, VOL. 41, PHILADELPHIA,
PA, US; ABSTRACT NO. 84488, GLAUSER M. ET AL.
'FAT TOLERANCE IN HIV-INFECTED SUBJECTS
INGESTING A SEMI-ELEMENTAL DIET CONTAINING
MEDIUM-CHAIN TRIGLYCERIDES MCT AND WHEY
PEPTIDES.'

(73) Patentinhaber:

IMMUNOTEC RESEARCH CORPORATION LTD.
292 ADRIEN PATERNADE
VAUDREUIL-DORION, QUEBEC J7V 5V5 (CA).

(72) Erfinder:

GOLD, PHIL
3225 THE BOULEVARD
WESTMOUNT, QUEBEC H3Y 1S4 (CA).

BOUNOUS, GUSTAVO
4858 CORE DES NEIGES
APT. 1504C, MONTREAL, QUEBEC H3V 1G8 (CA).

AT E 187 335 T1

Anmerkung:

Innerhalb von neun Monaten nach der Bekanntmachung des Hinweises auf die Erteilung des europäischen Patents im Europäischen Patentblatt kann jeder beim Europäischen Patentamt gegen das erteilte europäische Patent Einspruch einlegen. Der Einspruch ist schriftlich einzureichen und zu begründen. Er gilt erst als eingelegt, wenn die Einspruchsgebühr entrichtet worden ist (Art. 99(1) Europäisches Patentübereinkommen).

Die Übersetzung ist gemäß § 5 PatVEG vom Patentinhaber eingereicht worden. Sie wurde vom Österreichischen Patentamt nicht geprüft!



MINISTERIO DE ECONOMIA, FOMENTO Y RECONSTRUCCION

DEPARTAMENTO DE PROPIEDAD INDUSTRIAL

PATENTE DE INVENCION

Solicitud N° 382-93 Registro N° 41.956

En conformidad a la Ley 19.039, sobre Propiedad Industrial, concédese a:

IMMUNOTEC RESEARCH CORPORATION, LTD.

Domicilio : 1010 SHERBROKE ST. WEST, SUITE 1602, MONTREAL, QUEBEC,
CANADA, H3A 2R7

País : CANADA

Inventores.

GUSTAVO BOUNOUS; PHIL GOLD

POR : USO DE CONCENTRADO DE PROTEINAS DE SUERO DE LECHE NO DESNATURADAS PARA LA PREPARACION DE UN MEDICAMENTO DESTINADO AL TRATAMIENTO DE INDIVIDUOS VIH-SEROPPOSITIVOS.

CIP (7) A61K 35/20 38/00, 39/395

La vigencia de este privilegio en CHILE, rige desde el 05 de Noviembre de 2003 hasta el 05 de Noviembre de 2018.

ROGELIO CAMPUSANO SAEZ

Conservador de Patentes de Invención
y Diseños Industriales



ELEAZAR BRAVO MANRIQUEZ

Jefe del Departamento de Propiedad Industrial

Santiago, 01 de Abril de 2004

发明专利证书

发明名称：治疗HIV血清阳性个体的药品

发明人：古斯塔夫·邦纳斯；菲尔·戈尔德

专利号：ZL 93 1 04081.7 国际专利主分类号：A61K 35/20

专利申请日：1993年4月9日

专利权人：免疫技术研究公司

授权公告日：2001年9月5日

证书号 第 72033 号



本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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专利号 72033



局长 陈川

ČESKÁ REPUBLIKA

ÚŘAD PRŮMYSLOVÉHO VLASTNICTVÍ

PATENTOVÁ LISTINA



Ladislav Jakl

Ing. Ladislav Jakl, CSc.
předseda
Úřadu průmyslového vlastnictví



Kongeriget Danmark

Patent nr. DK/EP 0634934

Det europæiske patent på den opfindelse, som er angivet i vedlagte oversættelse af europæisk patentskrift, har fået virkning for Danmark. På patentskriftets forside findes oplysning om patenthaver, om dagen for Den Europæiske Patentmyndigheds bekendtgørelse af patentets meddelelse, om dagen for bekendtgørelse af dansk oversættelse af patentskriftet og om den europæiske indleveringsdag, som er dagen, fra hvilken patenttiden løber.

Patentets virkning for Danmark er meddelt i medfør af patentloven, jf. lovbekendtgørelse nr. 587 af 2. juli 1993.

13. juni 2000



Patent- og
Varemærkestyrelsen
Erhvervsministeriet

Mogens Kring
Direktør



**DEUTSCHES
PATENT- UND
MARKENAMT**

(12) **Übersetzung der
europäischen Patentschrift**
(97) **EP 0634934 B1**
(10) **DE 693 27 236 T2**

(51) Int. Cl.⁷:
A 61 K 35/20
A 61 K 38/00
A 61 K 39/395

- (21) Deutsches Aktenzeichen: 693 27 236.8
- (86) PCT-Aktenzeichen: PCT/CA93/00107
- (96) Europäisches Aktenzeichen: 93 907 682.4
- (87) PCT-Veröffentlichungs-Nr.: WO 93/20831
- (86) PCT-Anmeldetag: 22. 3. 1993
- (87) Veröffentlichungstag der PCT-Anmeldung: 28. 10. 1993
- (97) Erstveröffentlichung durch das EPA: 25. 1. 1995
- (97) Veröffentlichungstag der Patenterteilung beim EPA: 8. 12. 1999
- (47) Veröffentlichungstag im Patentblatt: 30. 3. 2000

-
- (30) Unionspriorität:
866756 10. 04. 1992 US
 - (13) Patentinhaber:
Immunotec Research Corp. Ltd., Vaudreuil-Dorion,
Quebec, CA
 - (14) Vertreter:
Mitscherlich & Partner, Patent- und Rechtsanwälte,
80331 München
 - (84) Benannte Vertragstaaten:
AT, CH, DE, DK, ES, GB, LI, LU, NL, SE
-

- (12) Erfinder:
GOLD, Phil, Westmount, Quebec H3Y 1S4, CA;
BOUNOUS, Gustavo, Apt. 1504C, Montreal,
Quebec H3V 1G8, CA

-
- (54) VERWENDUNG VON DIÄTETISCHEN MOLKEPROTEINEN ZUR BEHANDLUNG VON HIV SEROPositiven INDIVIDUEN
-

Anmerkung: Innerhalb von neun Monaten nach der Bekanntmachung des Hinweises auf die Erteilung des europäischen Patents kann jedermann beim Europäischen Patentamt gegen das erteilte europäische Patent Einspruch einlegen. Der Einspruch ist schriftlich einzureichen und zu begründen. Er gilt erst als eingereicht, wenn die Einspruchsgebühr entrichtet worden ist (Art. 99 (1) Europäisches Patentübereinkommen).

Die Übersetzung ist gemäß Artikel II § 3 Abs. 1 IntPatÜG 1991 vom Patentinhaber eingereicht worden. Sie wurde vom Deutschen Patent- und Markenamt inhaltlich nicht geprüft.

89299

STATE OF ISRAEL



מדינת ישראל

חוק הפטנטים, התשכ"ז – 1967

Patents Law, 5727 - 1967

תעודת פטנט

CERTIFICATE OF PATENT

זאת לתעודה כי הפרטים דלהלן נרשםו בפנקס הפטנטים: -

This is to certify that the following particulars have been recorded in the Register of Patents: -

8.IV.1993

תאריך הבקשה:

Date of Application

105339

מספר הפטנט:

Patent No.

Immunotec Research Corporation Ltd., Montreal, P.Q., Canada

בעל הפטנט

Patentee

תchnical Disclosure of Pharmaceutical Compositions Containing Undenatured Whey Protein Concentrate
דנטורציזיה
PHARMACEUTICAL COMPOSITIONS CONTAINING UNDENATURED WHEY PROTEIN CONCENTRATE

שם האמצאה
Title of Invention

מספר או סימן זהה Number or Identification Mark	תאריך Date	מדינת האיגוד Convention Country	דין קידמה Priority Right
866756	10.IV.1992	US	

18.X.1998

תאריך מתן הפטנט
Date of Grant of Patent

15.VII.1998

תאריך פרסום קיבול הבקשה
Publication Date
of Application Acceptance

תעודה זו, כשהיא מוטבעת בחותם הלשכה, הינה אישור כי דבר מתן הפטנט* נרשם בפנקס הפטנטים.

This Certificate, when impressed with the seal of the Office, certifies that the grant of the Patent* has been recorded in the Register of Patents.

* פרטי הפטנט מפורטים מעכר להר

* The Conditions of the Patent are set out overleaf.

משה ש. גולדברג

שם הפטנטים

REGISTRAR OF PATENTS





特許 証

特許第2738592号

発明の名称

食餌用ホエータンパク質を用いたHIV-血清陽性患者の治療法

特許権者

カナダ国ケベック州、モントリオール、スイート、1602、シャールブルック、セント
、ウエスト、1010

国籍 カナダ

イミュノテク、リサーチ、コーポレーション、リミテッド

発明者

ゴールド、フィル
バウナス、グスター

この発明は、特許するものと確定し、特許原簿に登録されたことを証する。

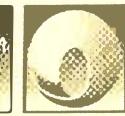
平成10年 1月16日

特許庁長官

寿 # 壱



平成05年 特許 第517869号



TITULO DE PATENTE DE INVENCION NUMERO:

194097

TITULAR(ES): IMMUNOTEC RESEARCH CORPORATION LTD.

DOMICILIO(S): 292 ADRIEN PATENAUME VAUDREUIL - DORION, QUEBEC, J7V
5V5 CANADA

DENOMINACION: METODO PARA EL TRATAMIENTO DE INDIVIDUOS SEROPPOSITIVOS
DE VIH CON PROTEINAS DIETETICAS DE SUERO DE LECHE

CLASIF.INT : A61K35/20, A61K37/02, A61K39/395

INVENTOR(ES): PHIL GOLD, GUSTAVO BOUNOUS

SOLICITUD

NUMERO: 9302057 FECHA DE
PRESENTACION: 7 DE ABRIL DE 1993 HORA: 13:43

PRIORIDAD

PAIS: US FECHA: 10 DE ABRIL DE 1992 NUMERO: 866.756

ESTA PATENTE CONCEDE A SU TITULAR EL DERECHO EXCLUSIVO DE EXPLOTACION DEL
INVENTO RECLAMADO EN EL CAPITULO REIVINDICATORIO Y TIENE UNA VIGENCIA DE VEINTE
AÑOS IMPRORROGABLES CONTADOS A PARTIR DE LA FECHA DE PRESENTACION DE LA SOLICITUD.

FECHA DE EXPEDICION

12 DE NOVIEMBRE DE 1999

EL DIRECTOR GENERAL



LIC. JORGE AMIGO CASTAÑEDA



Registreringsbrev

Certificate of Registration



KONGERIKET NORGE
The Kingdom of Norway

Patent nr.: 317795
Patent No.

I henhold til patentloven av 15 desember 1967 er Deres patent meddelt med opplysninger som angitt i vedheftet patenteskript.

This is to certify that the Norwegian Patent Office, in accordance with the Patents Act No. 9 of 15 December 1967, has granted a patent for the enclosed invention

Jørgen Smith
S.F.K.

Jørgen Smith
direktør





특 허 증

특 허 제 0297959 호

출원 번호 제 1994-0703473 호
출 원 일 1994년 10월 04일
등 록 일 2001년 05월 28일

발명의 명칭

유장단백질로 HIV-혈청양성개체의 치료방법

특허 권리자

이뮤노테크리서치코오퍼레이션리미티드

캐나다, 퀘벡에이치3에이2알7, 몬트리올, 슈이트1602, 셰르브르크
에스티. 웨스트1010

발 명 자

등록 사항란에 기재

위의 발명은 특허법에 의하여 특허등록원부에
등록되었음을 증명합니다.

2001년 05월 28일

특 허 증





FECHA DE PRESENTACIÓN

7 MARZO DE 2000.-

TRADUCCIÓN DE UNA PATENTE EUROPEA QUE DESIGNA A ESPAÑA

Nº DE SOLICITUD PATENTE EUROPEA		Nº DE PUBLICACION PATENTE EUROPEA CONCEDIDA	
93907.682.4.-		EP 0. 634. 934- B-1.-	
TITULAR/ES	APELLOS O DENOMINACIÓN JURÍDICA		NOMBRE
IMMUNOTEC RESEARCH CORPORATION LTD.-			
DATOS DEL TITULAR/ES			
DOMICILIO LOCALIDAD	VAUDREUIL-DORION, QUEBEC H3V 1G8 (CA).-		
PAÍS RESIDENCIA	CANADA.-	TELEFONO	
NACIONALIDAD	CANADIENSES.-	CÓDIGO NACIÓN	(CA).-
REPRESENTANTE:	D. JUAN LUIS LOPEZ MARCHENA.- Príncipe de Vergara nº 122.- Apartado Postal 1085.- 28080.- MADRID.- (España).-		
TITULO DE LA INVENCIÓN (EN ESPAÑA)			
<p>" UTILIZACION DE UN REGIMEN ALIMENTARIO A BASE DE PROTEINAS DE SUERO PARA EL TRATAMIENTO DE INDIVIDUOS SEROPPOSITIVOS AL VIH ".</p>			
DE CONFORMIDAD CON LO DISPUESTO EN EL CAPÍTULO V DEL R.D. 2424/1986, DE 10 DE OCTUBRE SE PRESENTA LA TRADUCCIÓN DEL FASCÍCULO DE LA PATENTE EUROPEA ARRIBA MENCIONADA PARA QUE DICHA PATENTE SURTA EFECTOS EN ESPAÑA.			
RELACIÓN DE DOCUMENTOS QUE SE ACOMPAÑAN			
<input checked="" type="checkbox"/> PRIMERA PÁGINA FASCÍCULO PATENTE EUROPEA PUBLICADO POR LA OEP			
<input checked="" type="checkbox"/> TRADUCCIÓN DEL FASCÍCULO			
<input checked="" type="checkbox"/> DIBUJOS (EN SU CASO)			
<input checked="" type="checkbox"/> AUTORIZACIÓN AL REPRESENTANTE			
<input checked="" type="checkbox"/> JUSTIFICANTE DEL PAGO DE LAS TASAS			
FIRMA DEL TITULAR/ES O REPRESENTANTE/S			
MADRID, 7 de Marzo 2000.-			

SVERIGE

(19) SE



Översättning av europeisk patenttskrift (T 3)

(87) Europeiskt publ nr:

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2000:12

(86) Europeiskt ansökningsnr:

93907682.4

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(51) Internationell klass

PATENTVERKET

A61K 35/20

A61K 38/00

A61K 39/395

(86) Ingravningsdag för ansökan
om europeiskt patent:
1993-03-22

(45) Meddelande datum för
det europeiska patentet
1999-12-08

(60) Stamansökans nummer

(24) Löpdag

(30) Pröntetsuppgifter
1992-04-10 US 866756

- -

(54) Benämning
Användning av dietiska vassleproteiner för behandling av HIV-seropositive individer

(73) Patentinnehavare

IMMUNOTEC RESEARCH CORPORATION LTD., Vaudreuil-Dorion, Quebec J7V 5V5 CA

(72) Uppfinnare

P. GOLD, Westmount, Quebec H3Y 1S4 CA
G. BOUNOUS, Apt. 1504C, Montreal, Quebec H3V 1G8 CA

(84) Designierade stater

AT CH DE DK ES GB LI LU NL SE

Siffrorna inom parentes anger internationell identifieringskod, NID-kod



中華民國專利證書

發明第 一一五四三 號

發明名稱：利用未變性乳清蛋白濃縮物增加癌症患者免疫力之藥學組成物

專利權人：免疫技術研究股份有限公司

發明人：菲爾·哥德、加斯泰佛·包納斯

專利權期間：自中華民國 八十九年 一月二十一日
至一〇二年 八月十六日止

上開發明業經專利權人依專利法之規定取得專利權

經濟部智慧財產局

局長

陳明邦

中華民國



月 七 日



注意：專利權人未依法繳納年費者，其專利權自原繳費期限屆滿之日起失效。



Europäisches
Patentamt

European
Patent Office

Office européen
des brevets

c183

Urkunde Certificate Certificat

Es wird hiermit bescheinigt, daß für die in der beigefügten Patentschrift beschriebene Erfindung ein europäisches Patent für die in der Patentschrift bezeichneten Vertragsstaaten erteilt worden ist.

It is hereby certified that a European patent has been granted in respect of the invention described in the annexed patent specification for the Contracting States designated in the specification.

Il est certifié qu'un brevet européen a été délivré pour l'invention décrite dans le fascicule de brevet ci-joint, pour les Etats contractants désignés dans le fascicule de brevet.

Europäisches Patent Nr.

European Patent No.

Brevet européen n°

0634934

Patentinhaber

IMMUNOTEC RESEARCH CORPORATION LTD.
292 Adrien Patenaude
Vaudreuil-Dorion, Quebec J7V 5V5/CA

Proprietor of the Patent

Titulaire du brevet



München, den
Münch,
Fai à Munich, io

08.12.99

Ingo Kober

Präsident des Europäischen Patentamts
President of the European Patent Office
Président de l'Office européen des brevets

International

Anti-Cancer Therapeutic Compositions for Prophylaxis or for Treatment of Cancer

Australia

Czech Republic

Israel

New Zealand

South Korea

Taiwan

United Kingdom



Commonwealth
of Australia

Letters patent

Patents Act 1990

No.
687356

STANDARD PATENT

I, Bruce Ian Murray, Commissioner of Patents, grant a Standard Patent with the following particulars:

Name and Address of Patentee:

Immunotec Research Corporation Ltd., 292 Adrien Patenaude, Vaudreuil-Dorion, Quebec J7V 5V5 Canada

Names of Actual Inventors: Phil Gold and Gustavo Bounous

Title of Invention: Anti-cancer therapeutic compositions containing whey proteinconcentrate

Application Number: 46937/93

Term of Letters Patent: Twenty years commencing on 5 August 1993

Priority Details:

Number
929347

Date
13 August 1992

Filed with
UNITED STATES OF AMERICA

Dated this 20 day of August 1998



B.I.MURRAY
COMMISSIONER OF PATENTS

ČESKÁ REPUBLIKA

ÚŘAD PRŮMYSLOVÉHO VLASTNICTVÍ

PATENTOVÁ LISTINA





Karel Čada
předseda
Úřadu průmyslového vlastnictví

תעודת פטנט

State of Israel.

Patent Office

מדינת ישראל,

לשכת הפטנטים

1967 חוק הפטנטים, התשכ"ז -
Patents Law, 5727 - 1967

תעודת פטנט

CERTIFICATE OF PATENT

זאת לטעודה כי הפרטים דלהלן נרשמו בפנקס הפטנטים:-
This is to certify that the following particulars have been recorded in the Register
of Patents:-

Patent No.

106576

מספר הפטנט:

Date of application:

03/08/1993

תאריך הבקשה:

Patentee(s):
IMMUNOTEC RESEARCH CORPORATION LTD.
1010 SHERBROOKE ST. WEST, S
UITE 1602,
MONTREAL, QUEBEC,
Canada

בעל(י) הפטנט:

Title of invention
ANTI-CANCER THERAPEUTIC
COMPOSITIONS FOR PROPHYLAXIS OR FOR
TREATMENT OF CANCER

שם האמצאה
תחשירים רפואיים נגד סרטן למניעת של
סרטן או לטיפול בו

Priority Right US 929347

13/08/1992

דין קדימה ארחה"ב

Date of publication of acceptance: 13/08/2000

תאריך פרסום קיבול הבקשה:

Date of Grant:

14/11/2000

תאריך מתן פטנט:

תעודה זו, כשהיא מוטבעת בחותם הלשכה, הינה
אישור כי דבר מתן הפטנט נרשם בפנקס הפטנטים.

This Certificate, when impressed with
the seal of the Office, certifies
that the grant of the patent has been
recorded in the Register of Patents.

נשיה ש. גולדברג
רשות הפטנטים
Registrar of Patents
משרד המשפטים
Ministry of Justice





No. 254704

LETTERS PATENT

ELIZABETH THE SECOND, by the Grace of God Queen of New Zealand and Her Other Realms and Territories, Head of the Commonwealth, Defender of the Faith; To all to whom these presents shall come, Greeting:

WHEREAS pursuant to the Patents Act 1953 an application has been made for a patent of an invention for ANTI-CANCER THERAPEUTIC COMPOSITIONS CONTAINING WHEY PROTEIN CONCENTRATE

(more particularly described in the complete specification relating to the application)
AND WHEREAS

IMMUNOTEC RESEARCH CORPORATION LTD., a Canadian company of 2075 rue Universite, Bureau 1100, Montreal, Quebec, H3A 2L1, Canada

(hereinafter together with his or their successors and assigns or any of them called "the patentee") is entitled to be registered as the proprietor of the patent hereinafter granted:

NOW, THEREFORE, We by these letters patent give and grant to the patentee our special licence, full power, sole privilege, and authority, that the patentee by himself, his agents, or licensees and no others, may subject to the provisions of any statute or regulation for the time being in force make, use, exercise and vend the said invention within New Zealand and its dependencies during a term of twenty years from the date hereunder written and that the patentee shall have and enjoy the whole profit and advantage from time to time accruing by reason of the said invention during the said term:

AND WE strictly command all our subjects whomsoever within New Zealand and its dependencies that they do not at any time during said term either directly or indirectly make use of or put into practice the said invention, nor in any way imitate the said invention without the consent, licence, or agreement of the patentee in writing under his hand, on pain of incurring such penalties as are prescribed by law and of being answerable to the patentee according to law for his damages thereby occasioned:

PROVIDED ALWAYS:

- (1) That these letters patent shall determine and become void if the patentee does not from time to time pay the renewal fees prescribed by law in respect of the patent;
- (2) That these letters patent are revocable on any of the grounds prescribed by the Patents Act 1953 as grounds for revoking letters patent;
- (3) That nothing in these letters patent shall prevent the granting of licences in the manner in which and for the considerations on which they may by law be granted;
- (4) That these letters patent shall be construed in the most beneficial sense for the advantage of the patentee.

IN WITNESS whereof We have caused these letters patent to be signed and sealed as of the 5th day of August 1993

Commissioner of Patents





특 허 증

특 허 제 0297610 호

출원 번호 제 1995-0700475 호
출 원 일 1995년 02월 09일
등 록 일 2001년 05월 24일

발명의명칭 유장단백질농축물을포함하는항암치료조성물

특허 권리자 이튜노테크리서치코오퍼레이션리미티드
캐나다, 쿠백에어치3에이2알7, 몬트리올, 슈이트1602, 쉐르브르크
에스티, 웨스트1010

발 명 자 등록 사항란에 기재

위의 발명은 특허법에 의하여 특허등록원부에
등록되었음을 증명합니다.

2001년 05월 24일

특 허 청





中華民國專利證書

發明第 一一一五四三 號

發明名稱：利用未變性乳清蛋白濃縮物增加癌症患者免疫力之藥學組成物

專利權人：免疫技術研究股份有限公司

發明人：菲爾·哥德、加斯泰佛·包納斯

專利權期間：自中華民國 八十九年 一月二十一日
至一〇二年 八月十六日止

上開發明業經專利權人依專利法之規定取得專利權

經濟部智慧財產局
局長 陳明邦

注意：專利權人未依法繳納年費者，其專利

中華民國





(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 655 925 B1

(12)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention
of the grant of the patent:
28.04.2004 Bulletin 2004/18

(51) Int Cl.⁷: **A61K 35/20**
// (A61K35/20, 31:51),
(A61K35/20, 31:525),
(A61K35/20, 33:04)

(21) Application number: **93917476.9**(22) Date of filing: **05.08.1993**

(86) International application number:
PCT/CA1993/000309

(87) International publication number:
WO 1994/004168 (03.03.1994 Gazette 1994/06)

(54) ANTI-CANCER THERAPEUTIC COMPOSITIONS CONTAINING WHEY PROTEIN CONCENTRATE

ANTIKREBS-THERAPEUTISCHE ZUSAMMENSETZUNGEN DIE MOLKE-PROTEINKONZENTRAT
ENTHALTEN

COMPOSITIONS THERAPEUTIQUES ANTI-CANCEREUSES CONTENANT UN CONCENTRE DE
PROTEINES DE PETIT-LAIT

(84) Designated Contracting States:
AT CH DE DK ES GB LI LU NL SE

• **BOUNOUS, Gustavo**
Montreal, Quebec H3G 1A7 (CA)

(30) Priority: **13.08.1992 US 929347**

(74) Representative: **Troesch Scheidegger Werner AG**
Patentanwälte
Postfach
8032 Zürich (CH)

(43) Date of publication of application:
07.06.1995 Bulletin 1995/23

(56) References cited:
EP-A- 0 374 390 **EP-A- 0 375 852**
DE-A- 3 628 010

(73) Proprietor: **IMMUNOTEC RESEARCH**
CORPORATION LTD.
Montreal, Quebec H3A 2R7 (CA)

Remarks:

The file contains technical information submitted
after the application was filed and not included in this
specification

(72) Inventors:
• **GOLD, Phil**
Westmount, Quebec H3Y 154 (CA)

EP 0 655 925 B1

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

International

Process for Making Undenatured Whey Protein Concentrate

Australia
New Zealand



Commonwealth
of Australia

Letters patent

Patents Act 1990

No.
692508

STANDARD PATENT

I, Janet Lucille Werner, Acting Commissioner of Patents, grant a Standard Patent with the following particulars:

Name and Address of Patentee:

Immunotec Research Corporation Ltd., 292 Adrien Patenaude, Vaudreuil-Dorion, Quebec J7V 5V5 Canada

Names of Actual Inventors: Michel Lange and Gustavo Bounous

Title of Invention: Process for making undenatured whey protein concentrate

Application Number: 14097/95

Term of Letters Patent: Twenty years commencing on 23 December 1994

Priority Details:

Number	Date	Filed with
175637	30 December 1993	UNITED STATES OF AMERICA
315904	30 September 1994	UNITED STATES OF AMERICA

Dated this 12 day of November 1998



Janet Werner
J.L.WERNER
ACTING COMMISSIONER OF PATENTS



No. 278018

LETTERS PATENT

ELIZABETH THE SECOND, by the Grace of God Queen of New Zealand and Her Other Realms and Territories, Head of the Commonwealth, Defender of the Faith; To all to whom these presents shall come, Greeting:

WHEREAS pursuant to the Patents Act 1953 an application has been made for a patent of an invention for
PROCESS FOR MAKING UNDENATURED WHEY PROTEIN CONCENTRATE

(more particularly described in the complete specification relating to the application)
AND WHEREAS

IMMUNOTEC RESEARCH CORPORATION LTD, 292 Adrien Patenaude, Vaudreuil-Dorion, Quebec J7V 5V5, Canada

(hereinafter together with his or their successors and assigns or any of them called "the patentee") is entitled to be registered as the proprietor of the patent hereinafter granted:

NOW, THEREFORE, We by these letters patent give and grant to the patentee our special licence, full power, sole privilege, and authority, that the patentee by himself, his agents, or licensees and no others, may subject to the provisions of any statute or regulation for the time being in force make, use, exercise and vend the said invention within New Zealand and its dependencies during a term of twenty years from the date hereunder written and that the patentee shall have and enjoy the whole profit and advantage from time to time accruing by reason of the said invention during the said term:

AND WE strictly command all our subjects whomsoever within New Zealand and its dependencies that they do not at any time during said term either directly or indirectly make use of or put into practice the said invention, nor in any way imitate the said invention without the consent, licence, or agreement of the patentee in writing under his hand, on pain of incurring such penalties as are prescribed by law and of being answerable to the patentee according to law for his damages thereby occasioned:

PROVIDED ALWAYS:

- (1) That these letters patent shall determine and become void if the patentee does not from time to time pay the renewal fees prescribed by law in respect of the patent;
- (2) That these letters patent are revocable on any of the grounds prescribed by the Patents Act 1953 as grounds for revoking letters patent;
- (3) That nothing in these letters patent shall prevent the granting of licences in the manner in which and for the considerations on which they may by law be granted;
- (4) That these letters patent shall be construed in the most beneficial sense for the advantage of the patentee.

IN WITNESS whereof We have caused these letters patent to be signed and sealed as of the 23rd day of December 1994



Commissioner of Patents
17th day of August 1998

International

Process for Producing an Undenatured Whey Protein Concentrate

Singapore
South Africa

THE REGISTRY OF PATENTS
SINGAPORE

CIP 7

THE PATENTS ACT
(CHAPTER 221)

CERTIFICATE OF GRANT OF PATENT

In accordance with section 35 of the Patents Act, it is hereby certified that a patent having the following P-No. 53316 [WO 96/35336] had been granted in respect of an invention having the following particulars:

Title : A PROCESS FOR PRODUCING AN UNDENATURED WHEY PROTEIN CONCENTRATE

Application No. : 9706092-5

Date of Filing : 08 May 1996

Priority Data : 09 May 1995 - PATENT APPLICATION NO. 08/437,852 (UNITED STATES OF AMERICA)

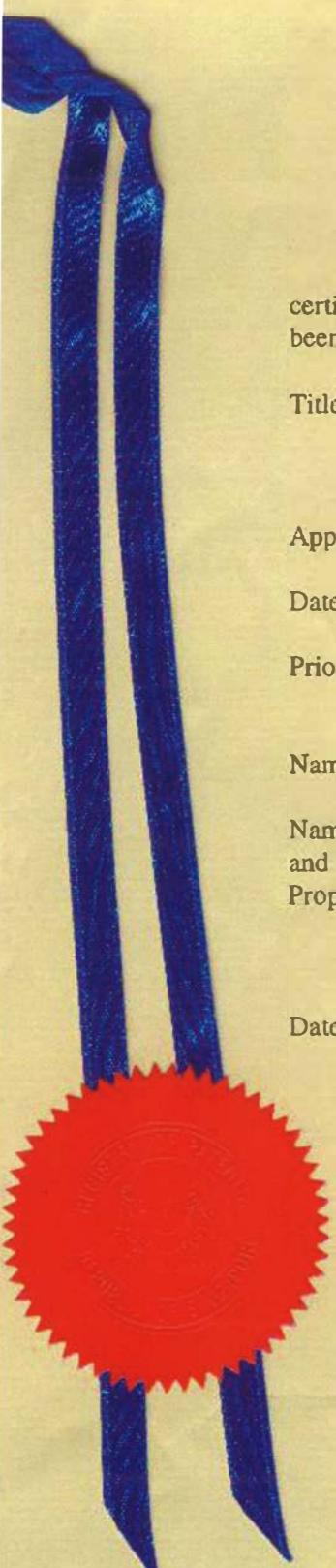
Name of Inventor(s) : BOUNOUS, GUSTAVO.

Name(s) and Address(es) of Proprietor(s) of Patent : IMMUNOTEC RESEARCH CORPORATION
292 ADRIEN PATERNADE
VAUDREUIL-DORION,
QUEBEC, J7V 5V5,
CANADA

Date of Grant : 27 April 1999

Dated this 27th day of April 1999.

Liew Woon Yin (Ms)
Registrar of Patents,
Singapore.



DEPARTEMENT VAN HANDEL EN NYWERHEID
DEPARTMENT OF TRADE AND INDUSTRY

REPUBLIEK VAN SUID-AFRIKA



REPUBLIC OF SOUTH AFRICA

PATENTBRIEF

(WET OP PATENTE, 1978)

LETTERS PATENT

(PATENTS ACT, 1978)

96/9618

No.

NADEMAAL
WHEREAS

IMMUNOTEC RESEARCH CORPORATION LTD.

(Hieronder "die Patenthouer" genoem)
(Hereinafter called "the Patentee")

..... aansoek by my gedoen het om die verlening van 'n patent ten opsigte van 'n uitvinding wat beskryf is en waarop aanspraak was applied to me for the grant of a patent in respect of an invention described and claimed in the complete specification

..... gemaak word in die volledige spesifikasie wat by die Patentkantoor onder bovermelde nommer ingedien is en waarvan 'n copy was deposited at the Patent Office under the above-mentioned number, a copy of which is annexed, together with the relevant

..... skrif aangeheg is tesame met die betrokke Vorm P. 2;
..... Form P. 2;

SO IS DIT dat hierdie Patentbrief aan die Patenthouer 'n patent verleen wat die uitwerking het dat, behoudens die
NOW THEREFORE these letters Patent are to grant to the Patentee a patent, the effect of which shall be to grant to the

..... reg opdragings van die Wet, aan die Patenthouer vir die duur van die patent in die Republiek die reg verleen word om ander
..... Patentee in the Republic, subject to the provisions of the Act, for the duration of the patent, the right to exclude other persons

..... uit te sluit van die vervaardiging, aanwending, uitoefening of van die handsetting van die uitvinding, sodat hy al die
..... profit making, using, exercising or disposing of the invention, so that he shall have and enjoy the whole profit and advantage

..... en voordeel wat uit die uitvinding voortspruit, verkry en geniet.
..... by reason of the invention.

TER BETUIGING WAARVAN die seël van die Patentkantoor hierop te Pretoria aangebring is met ingang van die
IN TESTIMONY WHEREOF the seal of the Patent Office has been affixed at Pretoria with effect from the

27th

dag van
day of

MAY

een duisend negehonderd
nineteen hundred and

NINETY EIGHT



Peter J. Morris
Registrateur van Patente • Registrar of Patents

[Blaai om
[See overleaf]

International

Whey Protein Composition, a Method for Producing it and Application of the Whey Protein Compositions

**Chile
Norway**



Nº 38412

Int. Cl. A23C 9/142, 9/148,
21/00, 21/06, A23K
1/08.-

MINISTERIO DE ECONOMIA, FOMENTO Y RECONSTRUCCION

DEPARTAMENTO DE PROPIEDAD INDUSTRIAL

PATENTE DE INVENCION

Visto la resolución dictada, concédese Patente de Invención a:

PROF. GUSTAVO BOUNOUS y PROF. PHIL GOLD
Domiciliados en 1745 Cedar Avenue, Montreal, Quebec, CANADA.
3225 The Boulevard Westmount, Quebec, CANADA.

Inventores de la patente.

TITULO :

"Procedimiento por ultrafiltración no térmico, para obtener a partir del lactosuero, de una composición proteica biológicamente activa que contiene un concentrado de proteínas y/o péptidos en su conformación nativa, con grupos glutamil-cisteína, útil para nutrición humana o animal, por aumentar el glutatión celular".

El plazo de concesión para explotar en el país el invento es de 15 años contados desde le 30 de Septiembre de 1992.-

Santiago de Chile, 16 de Febrero

de 1993

IVAN VRSALOVIC OSTOJIC
Conservador de Patentes de Invención



JAIME PALMA OYEDO
Jefe del Depto. de Propiedad Industrial



KONGERIKET NORGE

PATENTBREV

Det bekreftes herved at Styret for det industrielle rettsvern i medhold av lov nr. 9 av 15. desember 1967 om patenter har meddelt patent som angitt i vedheftede patentskrift.


Irene S. fl
Direktør



International

Biologically Active Whey Protein Composition, a Method for Producing it and Use of the Composition

**Argentina
Germany
Italy
Mexico
New Zealand
United Kingdom**



255565

LA ADMINISTRACION NACIONAL DE PATENTES, CONFORME LO RESUELTO EN EL EXPEDIENTE RESPECTIVO Y A LO DISPUESTO POR LA LEY 24.481 (T.O. 1996), EXTIENDE EN NOMBRE DE LA NACION ARGENTINA EL PRESENTE TITULO A FAVOR DE IMMUNOTEC RESEARCH CORPORATION LTD.

QUE ACREDITA LA CONCESION DE PATENTE DE INVENCION SOBRE :
COMPOSICION PROTEICA BIOLOGICAMENTE ACTIVA DE LACTEO Y SU APLICACION
CUYA DOCUMENTACION ANEXA ES COPIA FIEL DE LA DEPOSITADA EN EL INSTITUTO
NACIONAL DE LA PROPIEDAD INDUSTRIAL CONFORME A LO ESTABLECIDO EN EL ARTICOLO
97 DEL REGLAMENTO DE LA LEY 24.481 (DECRETO 260/96 - ANEXO II), EL
TERMINO POR EL QUE SE ACUERDA LA PATENTE EXPIRARÁ EL DIA
25 DE MARZO DE 2017

BUENOS AIRES, 25 DE MARZO DE 2002

D. LUIS M. NOGUERA
Comisario



(19) BUNDESREPUBLIK
DEUTSCHLAND



DEUTSCHES
PATENTAMT

(12) Übersetzung der
europäischen Patentschrift
(87) EP 0375 852 B1
(10) DE 689 24 142 T 2

(51) Int. Cl. 6:
A 23 J 1/20
A 61 K 35/20
A 23 C 9/142

(30) Unionspriorität: (32) (33) (31)
23.12.88 US 289971

(73) Patentinhaber:
Immunotec Research Corp. Ltd., Montreal, Quebec,
CA

(74) Vertreter:
Patentanwälte Mitscherlich & Partner, 80331
München

(84) Benannte Vertragstaaten:
AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

(72) Erfinder:
Bounos, Gustavo, Montreal, Quebec, CA; Gold, Phil,
Quebec H3Y 2S4, CA

(54) Biologisch aktive Molkeproteinzusammensetzung, Verfahren zur Herstellung und Verwendung dieser
Zusammensetzung.

Anmerkung: Innerhalb von neun Monaten nach der Bekanntmachung des Hinweises auf die Erteilung des europäischen Patents kann jedermann beim Europäischen Patentamt gegen das erteilte europäische Patent Einspruch einlegen. Der Einspruch ist schriftlich einzureichen und zu begründen. Er gilt erst als eingeleitet, wenn die Einspruchsgebühr entrichtet worden ist (Art. 99 (1) Europäisches Patentübereinkommen).

Die Übersetzung ist gemäß Artikel II § 3 Abs. 1 IntPatÜG 1991 vom Patentinhaber eingereicht worden. Sie wurde vom Deutschen Patentamt inhaltlich nicht geprüft.

DE 689 24 142 T 2

DE 689 24 142 T 2

ALL'UFFICIO CENTRALE BREVETTI
Via Molise, 19
ROMA



OGGETTO: Traduzione del testo del brevetto europeo n.0 375 852 (num.pubblicazione) (art. 4 D.P.R. 8-1-1979, n. 32, come modificato dall'art. 2 L. 3/5/1985 n° 194)

La Ditta IMMUNOTEC RESEARCH CORPORATION LTD.
Sig. Aim

di nazionalità canadese con sede in MONTREAL, Quebec (Canada)
XXXXXXXXXX

Via //

a mezzo dei mandatari Fabrizio de Benedetti,
Pasquale Pizzoli, Mario Arrigucci, Silvano Adorno, Luciano Aimì,
della SOCIETA' ITALIANA BREVETTI S.p.A., Via Carducci, 8, 20123 Milano, presso
cui elegge domicilio in Italia agli effetti di legge.

DEPOSITA PRESSO QUESTO UFFICIO

ai fini previsti dal citato art. 4 l'allegata traduzione in lingua italiana del
testo nel quale l'Ufficio Europeo Brevetti concede il brevetto europeo rilasciato per l'Italia di cui è titolare, n. 0 375 852
avente per titolo: "COMPOSIZIONE DI PROTEINE DEL STERO DI LATTE BIOLOGICAMENTE
ATTIVE, METODO PER LA SUA PREPARAZIONE E USO DELLA COMPOSIZIONE"

depositato il 3 OTTOBRE 1989 - Dom. N°89118345.1

classificazione: A 23 J 1/20 - A 61 K 35/20 - A 23 C 9/142

Milano, 5 DICEMBRE 1995

Allegati:

2 copie del presente formulario
1 esemplare della traduzione N. 1089393
Disegni, tavole n. 7



FIRMA
Il Mandatario:

Dr. Luciano AIMI
Iscr. Albo 130

1 lettera d'incarico/

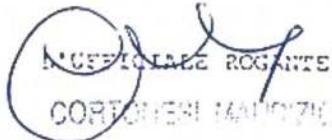
=====
UFFICIO PROV. INDUSTRIA, COMMERCIO ED ARTIGLIANATO DI MILANO
=====

(spazio riservato all'ufficio) n° d'ordine

La presente istanza con i documenti allegati è stata ricevuta da questo Ufficio
in data

5 DIC 1995

timbro
dell'U.P.I.C.A.



UFFICIALE ROGANTE
CORTONI GSI MILANO

CORTONI GSI MILANO



TITULO DE PATENTE DE INVENCION NUMERO:

182279

TITULAR(ES): IMMUNOTEC RESEARCH CORPORATION LTD.

DOMICILIO(S): 1010 SHERBROUSE STREET, WEST MONTREAL, CANADA

DENOMINACION: PROCEDIMIENTO PARA PRODUCIR UN CONCENTRADO DE PROTEINAS
DE SUERO LACTEO, BIOLOGICAMENTE ACTIVO, EL CONCENTRADO
MISMO Y SU UTILIZACION

CLASIF.INT : A23J1/20, A61K35/20

INVENTOR(ES): GUSTAVO BOUNOUS, PHIL GOLD

SOLICITUD

NUMERO: 18842

FECHA DE

PRESENTACION: 21 DE DICIEMBRE DE 1989

HORA: 13:20

PRIORIDAD

PAIS: US

FECHA: 23 DE DICIEMBRE DE 1988

NUMERO: 289,971

ESTA PATENTE CONCEDE A SU TITULAR EL DERECHO EXCLUSIVO DE EXPLOTACION DEL
INVENTO RECLAMADO EN EL CAPITULO REIVINDICATORIO Y TIENE UNA VIGENCIA DE VEINTE
AÑOS IMPRORROGABLES CONTADOS A PARTIR DE LA FECHA DE PRESENTACION DE LA SOLICITUD.

FECHA DE EXPEDICION

2 DE AGOSTO DE 1996

EL DIRECTOR GENERAL


LIC. JORGE AMIGO CASTAÑEDA

LETTERS PATENT

Number 243860

ELIZABETH THE SECOND, by the Grace of God Queen of New Zealand and Her Other Realms and Territories, Head of the Commonwealth, Defender of the Faith; To all to whom these presents shall come, Greeting:

WHEREAS pursuant to the Patents Act 1953 an application has been made for a patent of an invention for

USE OF A BIOLOGICALLY ACTIVE WHEY PROTEIN COMPOSITION

(more particularly described in the complete specification relating to the application)

AND WHEREAS

IMMUNOTEC RESEARCH CORPORATION LTD., 292 Adrien Patenaude, Vaudreuil-Dorion, Quebec, Canada J7V 5V5

(hereinafter together with his or their successors and assigns or any of them called "the patentee") is entitled to be registered as the proprietor of the patent hereinafter granted:

Address for service: BALDWIN SHELSTON WATERS, Level 14, NCR House, 342 Lambton Quay, Wellington, New Zealand

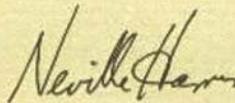
NOW, THEREFORE, We by these letters patent give and grant to the patentee our special licence, full power, sole privilege, and authority, that the patentee by himself, his agents, or licensees and no others, may subject to the provisions of any statute or regulation for the time being in force make, use, exercise and vend the said invention within New Zealand and its dependencies during a term of twenty years from 19 December 1989 and that the patentee shall have and enjoy the whole profit and advantage from time to time accruing by reason of the said invention during the said term;

AND WE strictly command all our subjects whomsoever within New Zealand and its dependencies that they do not at any time during said term either directly or indirectly make use of or put into practice the said invention, nor in any way imitate the said invention without the consent, licence, or agreement of the patentee in writing under his hand, on pain of incurring such penalties as are prescribed by law and of being answerable to the patentee according to law for his damages thereby occasioned:

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- (3) That nothing in these letters patent shall prevent the granting of licences in the manner in which and for the considerations on which they may by law be granted;
- (4) That these letters patent shall be construed in the most beneficial sense for the advantage of the patentee.

IN WITNESS whereof We have caused these letters patent to be signed and sealed on 8 February 2001 with effect from 19 December 1989.



Neville Harris
Commissioner of Patents, Trade Marks and Designs



EUROPEAN PATENT SPECIFICATION

- (45) Date of publication of patent specification: 06.09.95 (61) Int. Cl.⁶ A23J 1/20, A61K 35/20,
A23C 9/142
(21) Application number: 89118345.1
(22) Date of filing: 03.10.89

The file contains technical information submitted
after the application was filed and not included in
this specification

- (54) Biologically active whey protein composition, a method for producing it and use of the
composition.

- (30) Priority: 23.12.88 US 289971
(43) Date of publication of application:
04.07.90 Bulletin 90/27
(45) Publication of the grant of the patent:
06.09.95 Bulletin 95/36
(84) Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE
(56) References cited:

EP-A- 0 239 722	WO-A-87/04050
WO-A-88/08673	FR-A- 2 296 428
GB-A- 1 136 309	GB-A- 1 495 940
US-A- 4 710 387	US-A- 4 753 926
US-A- 4 784 685	

M.K. Horwitt, The Vitamins, 2nd ed., vol.V,
1972, pages 88-96

(73) Proprietor: IMMUNOTEC RESEARCH CORPORATION LTD.
1010 Sherbrooke St. West,
Suite 1602
Montreal,
Quebec H3A 2R7 (CA)

(72) Inventor: Bounos, Gustavo
1745 Cedar Avenue
Montreal, Quebec (CA)
Inventor: Gold, Phil
3225 The Boulevard Westmount
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