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(71) Applicant (for all designated States except US): **PACIFICHEALTH LABORATORIES, INC.** [US/US]; Metro Park South, 100 Matawan Road, Suite 420, Matawan, NJ 07747-3913 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PORTMAN, Robert** [US/US]; 247 Kemp Avenue, Fair Haven, NJ 07704 (US).

(74) Agents: **SWOPE, R., Hain** et al.; Gibbons, P.C., One Riverfront Plaza, Newark, NJ 07102 (US).

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(54) Title: COMPOSITION FOR ENHANCING MUSCLE RECOVERY

(57) Abstract: An essential composition that acts to prevent or retard loss of muscle strength and atrophy during extended periods of inactivity is provided. The compositions are characterized by a ratio of carbohydrate to protein of from about 1.5 : 1 to 2: 1 and by the presence of a specific amino acid component of leucine and, optimally, arginine. The carbohydrate component is at least two members of a group of four sugars and the protein component is whey protein and casein. A preferred carbohydrate component is glucose and sucrose. The ratio of whey protein to casein in the subject compositions is about 3:1. The subject compositions are preferably provided in preparations containing conventional excipient materials such as flavors, coloring agents, emulsifiers, artificial sweeteners and the like, such preparations providing from about 33 to 58 grams of the essential composition, which comprises from about 15% to 80% by weight of said preparations.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/13026

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A23L 1/30 (2007.10)

USPC - 426/72

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)

IPC(8) - A23L 1/30 (2007.10)

USPC - 426/72

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 426/\$

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

PubWEST(USPT,PGPB,EPAB,JPAB); Google Patents; Google Scholar

Search terms: muscle, carbohydrate, protein, amino acid, glucose, sucrose, whey protein, casein or calcium casein, leucine, arginine

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,989,171 B2 (PORTMAN) 24 January 2006 (24.01.2006) col. 1, ln 13-22; col. 4, ln 6-7 and 20-43; col. 5, ln 38-40; and col. 6, ln 13-20 and 53-67.	1-18
Y	US 2006/0045906 A1 (GARDINER et al.) 2 March 2006 (02.03.2006) para [0010], [0019], [0075], [0076], [0081], [0093] and [0102].	1-18
Y	US 2001/0031729 A1 (VAN LOON et al.) 18 October 2001 (18.10.2001) para [0002]; pg 6 claims 3 and 5.	8 and 9

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"&" document member of the same patent family

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16 October 2007 (16.10.2007)

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774