



US 20070010424A1

(19) **United States**

(12) **Patent Application Publication**
Pedersen et al.

(10) **Pub. No.: US 2007/0010424 A1**

(43) **Pub. Date: Jan. 11, 2007**

(54) **PROPYLENE GLYCOL-CONTAINING
PEPTIDE FORMULATIONS WHICH ARE
OPTIMAL FOR PRODUCTION AND FOR
USE IN INJECTION DEVICES**

(75) Inventors: **Tina Bjeldskov Pedersen**, Smorum
(DK); **Claude Bonde**, Lyngby (DK);
Dorthe Kot Engelund, Holte (DK)

Correspondence Address:
NOVO NORDISK, INC.
PATENT DEPARTMENT
100 COLLEGE ROAD WEST
PRINCETON, NJ 08540 (US)

(73) Assignee: **Novo Nordisk A/S**, Bagsvaerd (DK)

(21) Appl. No.: **11/435,977**

(22) Filed: **May 17, 2006**

Related U.S. Application Data

(63) Continuation of application No. PCT/DK04/00792,
filed on Nov. 18, 2004.

(30) **Foreign Application Priority Data**

Nov. 20, 2003 (DK)..... PA 2003 01719

Publication Classification

(51) **Int. Cl.**
A61K 38/28 (2006.01)
A61K 31/045 (2006.01)
A61K 38/26 (2006.01)
(52) **U.S. Cl.** **514/3**; 514/12; 514/738

(57) **ABSTRACT**

The present invention relates to pharmaceutical formulations comprising a peptide and propylene glycol, to methods of preparing such formulations, and to uses of such formulations in the treatment of diseases and conditions for which use of the peptide contained in such formulations is indicated. The present invention further relates to methods for reducing the clogging of injection devices by a peptide formulation and for reducing deposits on production equipment during production of a peptide formulation.

FIGURE 1

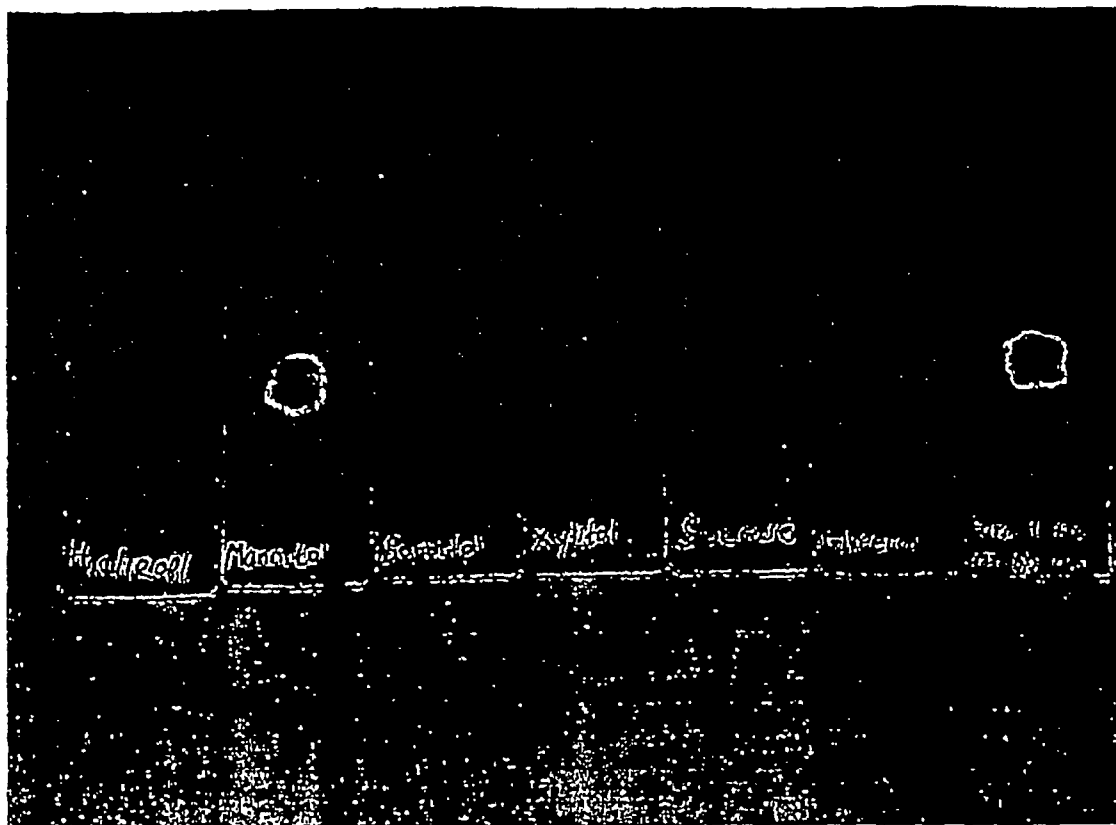


FIGURE 2



Mannitol



Argi-



Inosi-

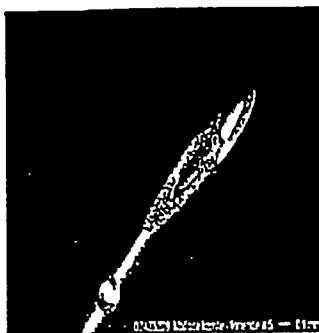


Glyce-

FIGURE 3



Myo-inositol



Maltose



Glycerol

FIGURE 4



Glycine

Lactose

Mannitol

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.