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(71) Applicant *(for all designated States except US)*: **BIODEL INC.** [US/US]; 100 Saw Mill Road, Danbury, CT 06810 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **STEINER, Solomon, S.** [US/US]; 24 Old Wagon Road, Mount Kisco, NY 10549 (US). **POHL, Roderike** [US/US]; 9 Coburn Road East, Sherman, CT 06784 (US). **LI, Ming** [US/US]; 2979 Hickory Street, Yorktown Heights, NY 10598 (US). **HAUSER, Robert** [US/US]; 8730 Endless Ocean Way, Columbia, MD 21045 (US).

(74) Agents: **PABST, Patrea, L.** et al.; Pabst Patent Group LLP, 1545 Peachtree Street, N.E., Suite 320, Atlanta, GA 30309 (US).

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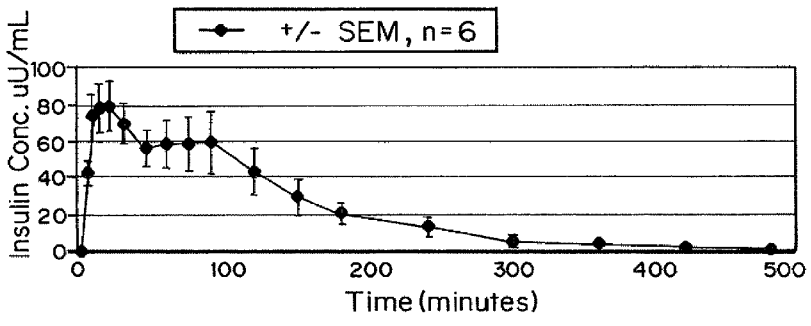


FIG. 13

(57) Abstract: Injectable insulin formulations with improved stability and rapid onset of action are described herein. The formulations may be for subcutaneous, intradermal or intramuscular administration. In the preferred embodiment, the formulations are administered via subcutaneous injection. The formulations contain insulin in combination with a chelator and dissolution agent, and optionally additional excipients. In the preferred embodiment, the formulation contains human insulin, a zinc chelator such as EDTA and a dissolution agent such as citric acid or sodium citrate. These formulations are rapidly absorbed into the blood stream when administered by subcutaneous injection.

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