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(12) **United States Patent**
Jiang et al.

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(54) **LEVOTHYROXINE FORMULATIONS**

OTHER PUBLICATIONS

- (71) Applicant: **FRESENIUS KABI USA, LLC**, Lake Zurich, IL (US)
- (72) Inventors: **John Zhiqiang Jiang**, Skokie, IL (US); **Arunya Usayapant**, Mundelein, IL (US); **George Monen**, Woodridge, IL (US)
- (73) Assignee: **Fresenius Kabi USA, LLC**, Lake Zurich, IL (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(51) **Int. Cl.**

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CPC **A61K 31/198** (2013.01); **A61K 9/0019** (2013.01); **A61K 9/19** (2013.01); **A61K 47/02** (2013.01); **A61K 47/10** (2013.01); **A61K 47/26** (2013.01)

(58) **Field of Classification Search**

CPC ... A61K 31/198; A61K 47/26; A61K 9/0019; A61K 9/19
 See application file for complete search history.

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Primary Examiner — Kara R McMillian
 (74) *Attorney, Agent, or Firm* — Baker & Hostetler LLP

(57) **ABSTRACT**

A levothyroxine composition includes levothyroxine sodium and mannitol. The composition is a lyophilized solid. The composition may include from 100 to 500 micrograms levothyroxine sodium and from 2 to 4 milligrams mannitol.

15 Claims, 3 Drawing Sheets

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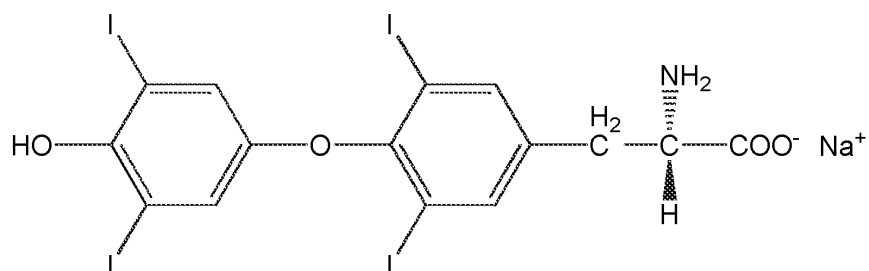


FIG. 1

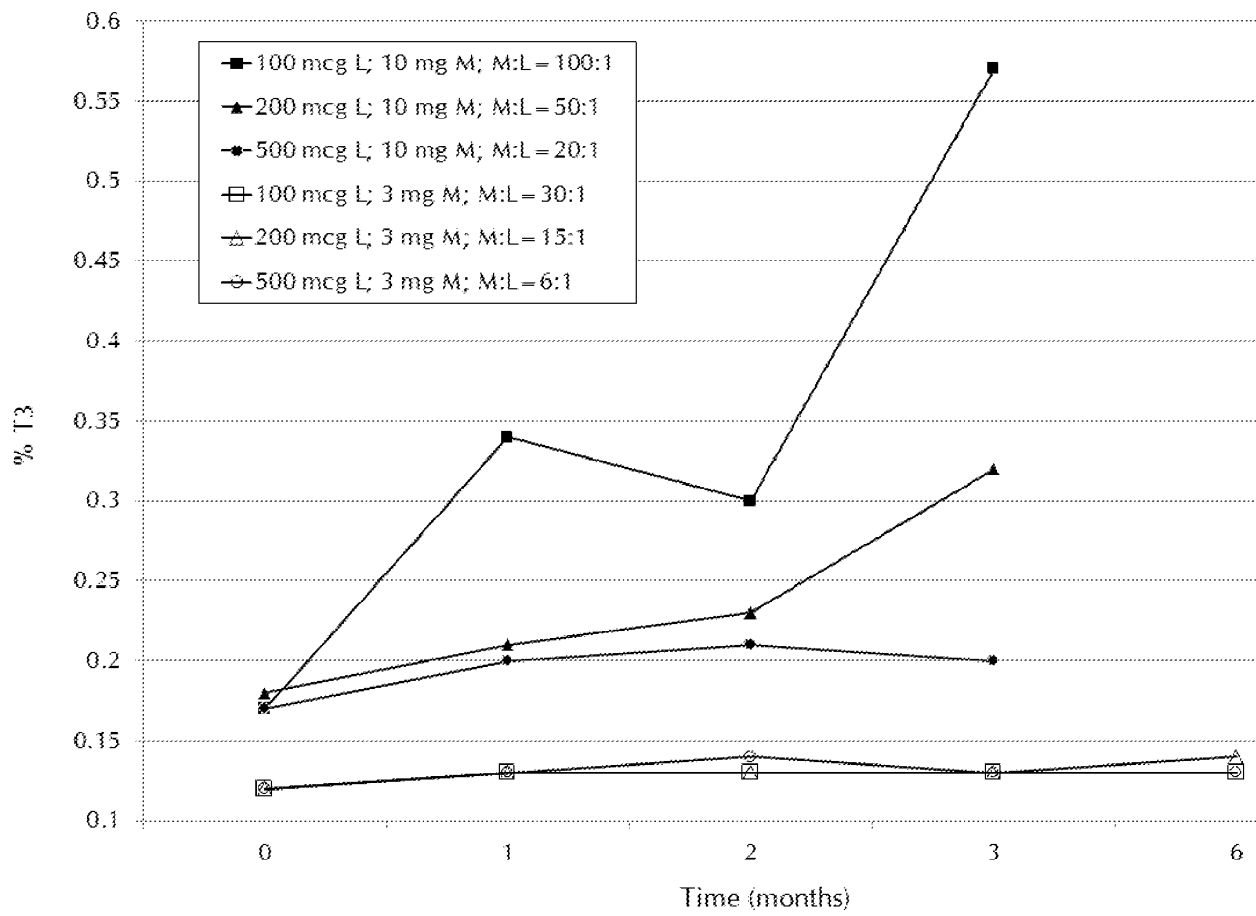


FIG. 2

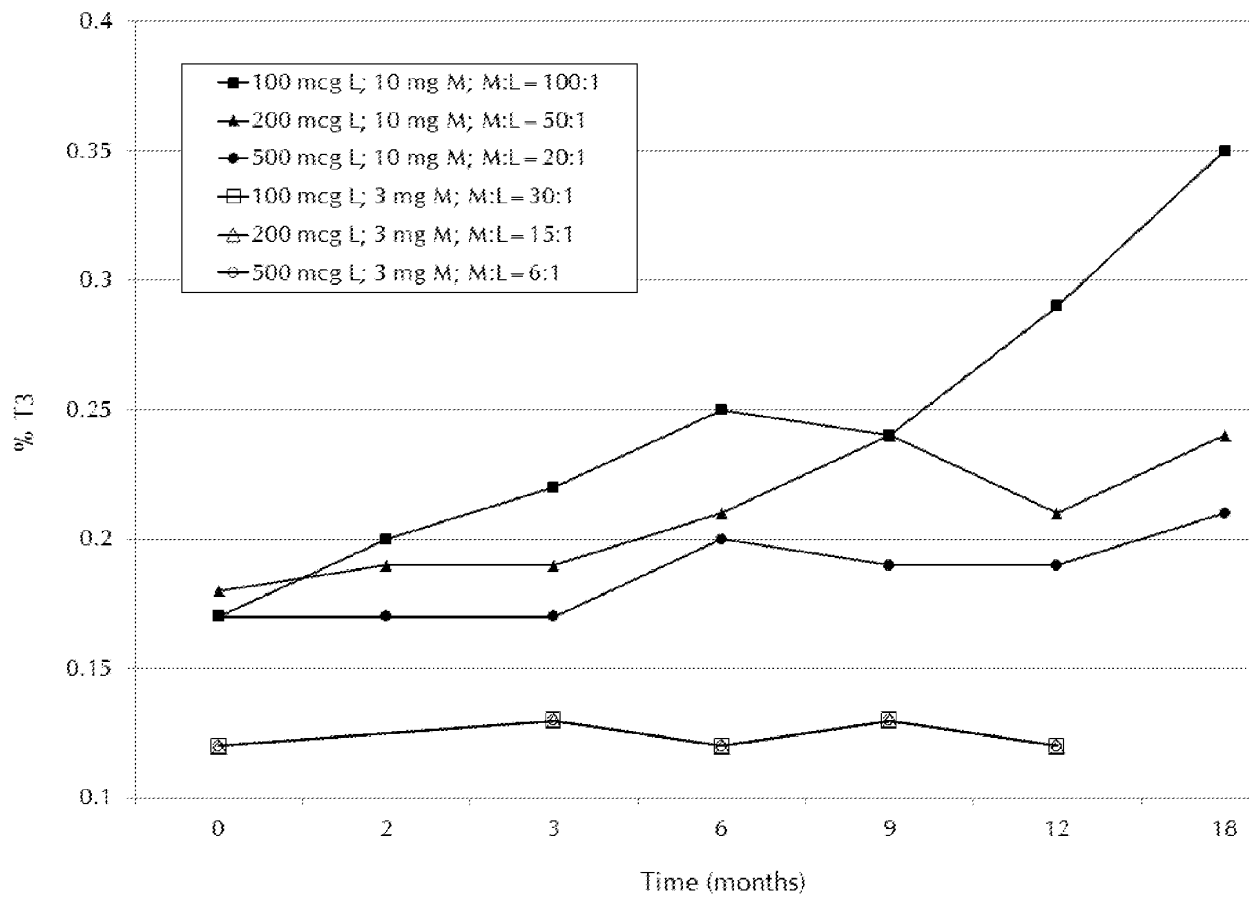


FIG. 3

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