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

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(54) **LEVOTHYROXINE FORMULATIONS**

OTHER PUBLICATIONS

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- (*) 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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- (60) Provisional application No. 61/529,084, filed on Aug. 30, 2011.

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(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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(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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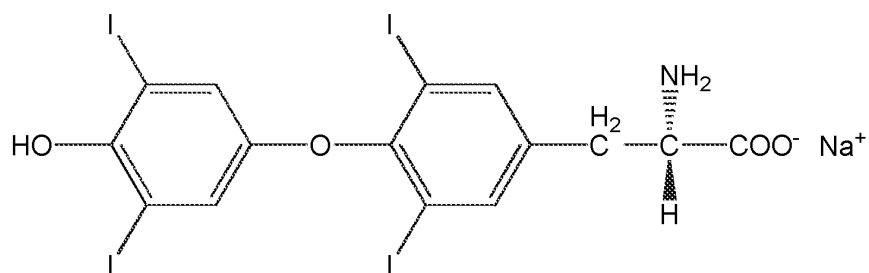


FIG. 1

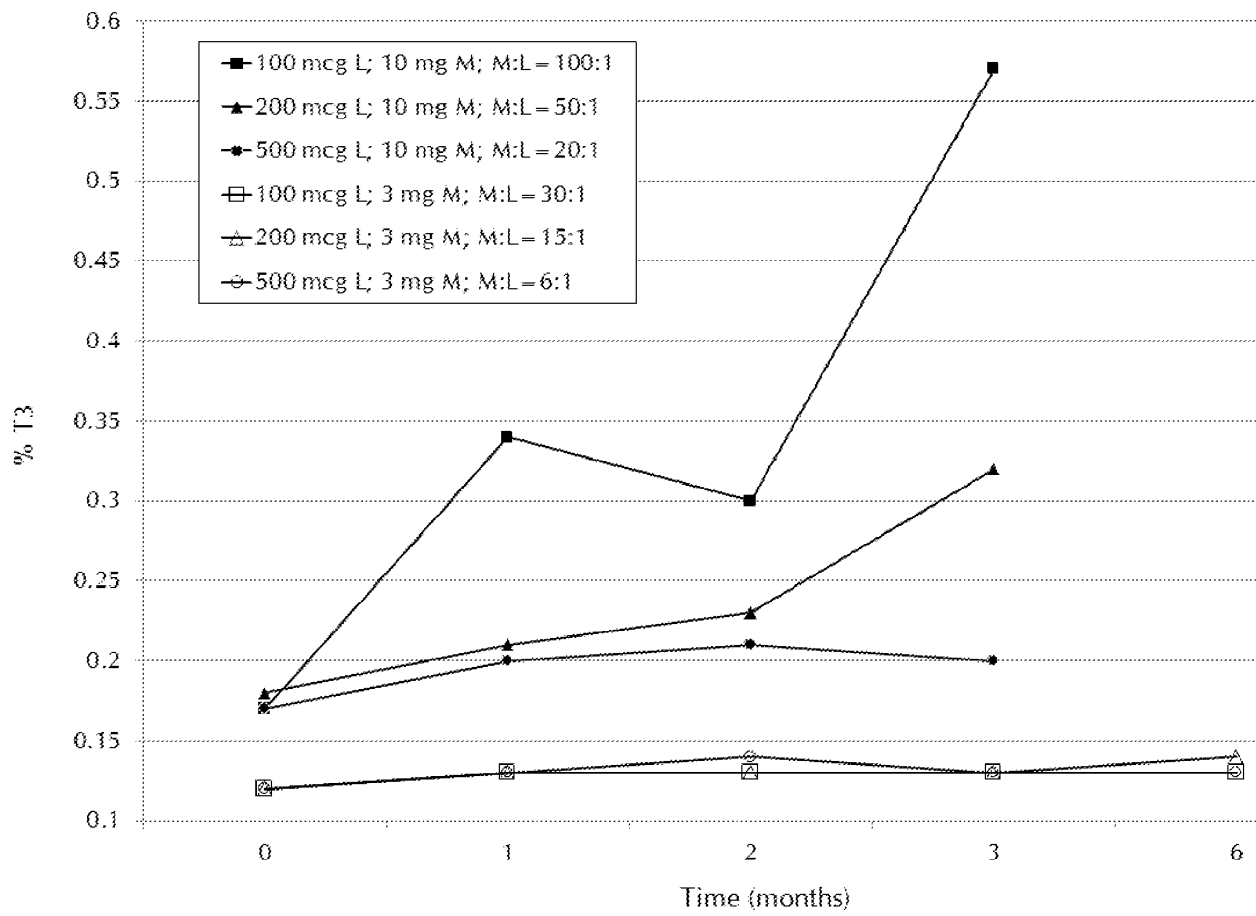


FIG. 2

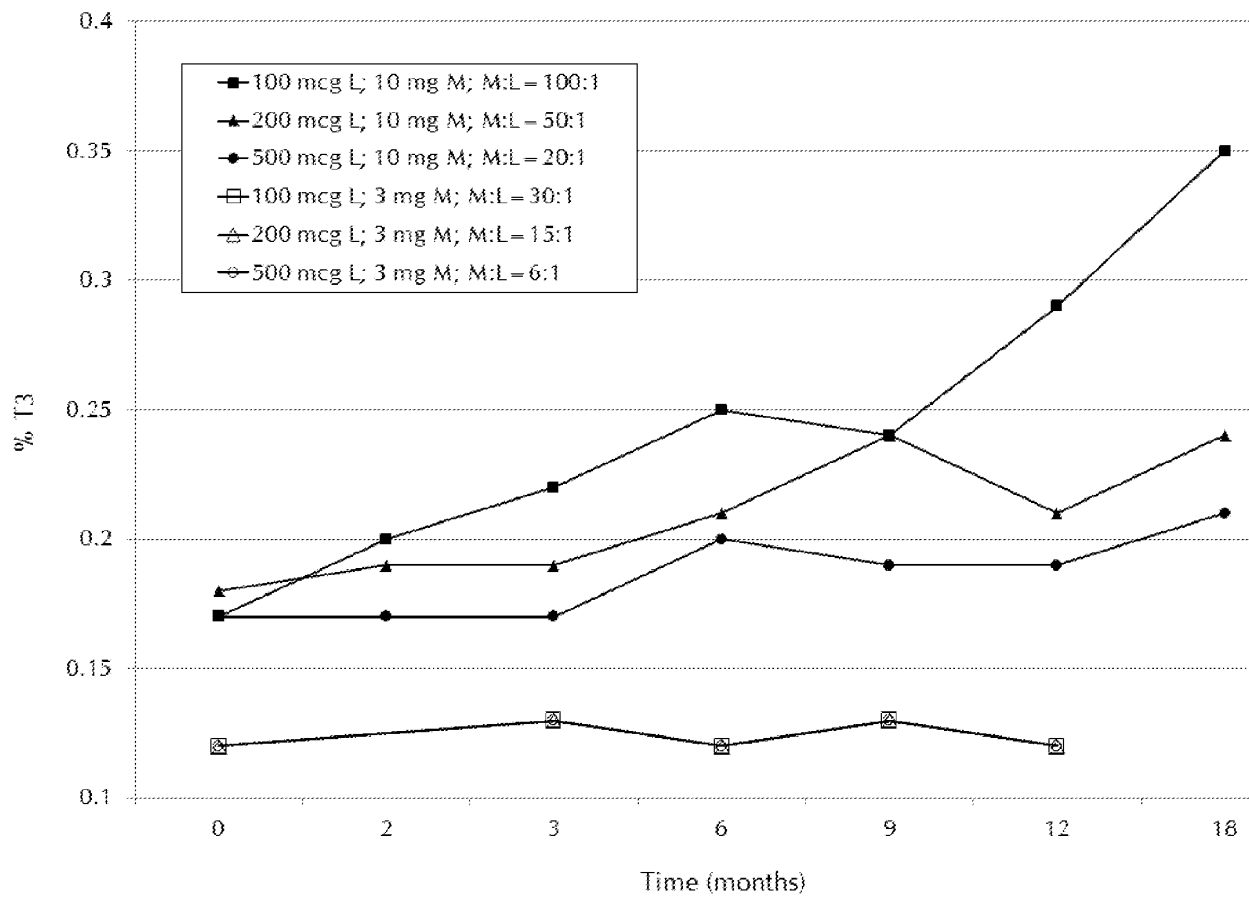


FIG. 3

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