



[54] PHARMACEUTICAL COMPOSITIONS
CONTAINING ALKYLARYL POLYETHER
ALCOHOL POLYMER

[75] Inventor: Thomas P. Kennedy, Richmond, Va.

[73] Assignee: Charlotte-Mecklenburg Hospital
Authority, Charlotte, N.C.

[*] Notice: This patent issued on a continued pro-
secution application filed under 37 CFR
1.53(d), and is subject to the twenty year
patent term provisions of 35 U.S.C.
154(a)(2).

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Related U.S. Application Data

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No. 5,849,263, which is a continuation-in-part of application
No. 08/299,316, Aug. 31, 1994, Pat. No. 5,512,270, which
is a continuation-in-part of application No. 08/039,732, Mar.
30, 1993, abandoned.

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[52] U.S. Cl. 424/45

[58] Field of Search 424/45, 78.05,
424/78.06, 78.08, 78.37; 514/179, 885,
887

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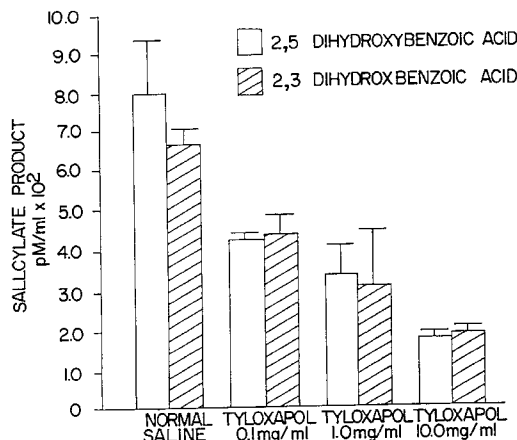
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Primary Examiner—Robert H. Harrison
Attorney, Agent, or Firm—Alston & Bird LLP

[57] ABSTRACT

There is provided novel pharmaceutical compositions con-
taining tyloxapol as the active ingredient. These formula-
tions comprise tyloxapol at concentrations above 0.125%,
preferably from about 0.25% to about 5.0%. In addition, the
invention encompasses pharmaceutical compositions having
reduced hypertonicity which compositions comprise tylox-
apol in pharmaceutically acceptable solutions without sig-
nificant concentrations of hypertonic agents or other active
ingredients NaHCO₃, or active phospholipids, such as
DPPC. The less hypertonic formulations allow one to derive
all the benefits of the active ingredient tyloxapol, such as its
reduced toxicity and enhanced half-life, while avoiding or
reducing side effects, such as bronchospasms, associated
with the various hypertonic agents or other active ingredient
agents.

9 Claims, 8 Drawing Sheets



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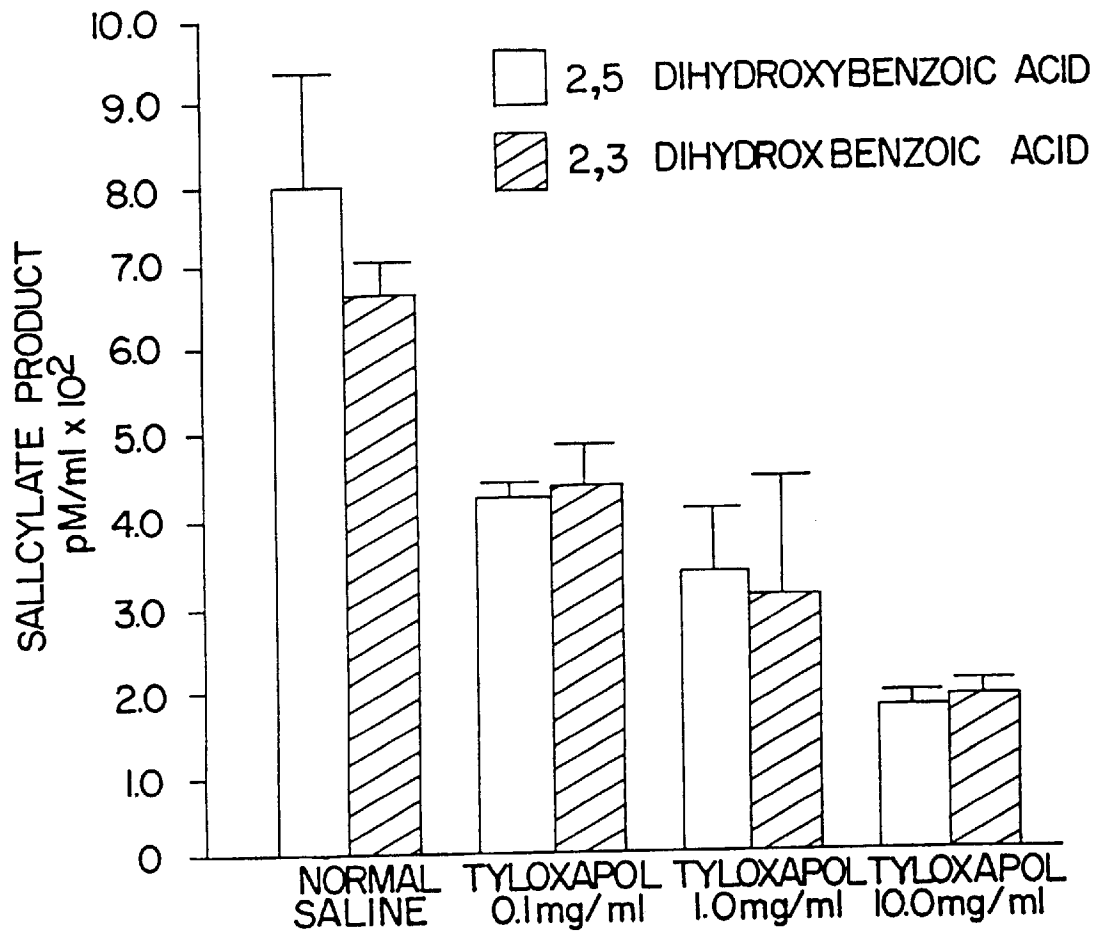


FIG. 1.

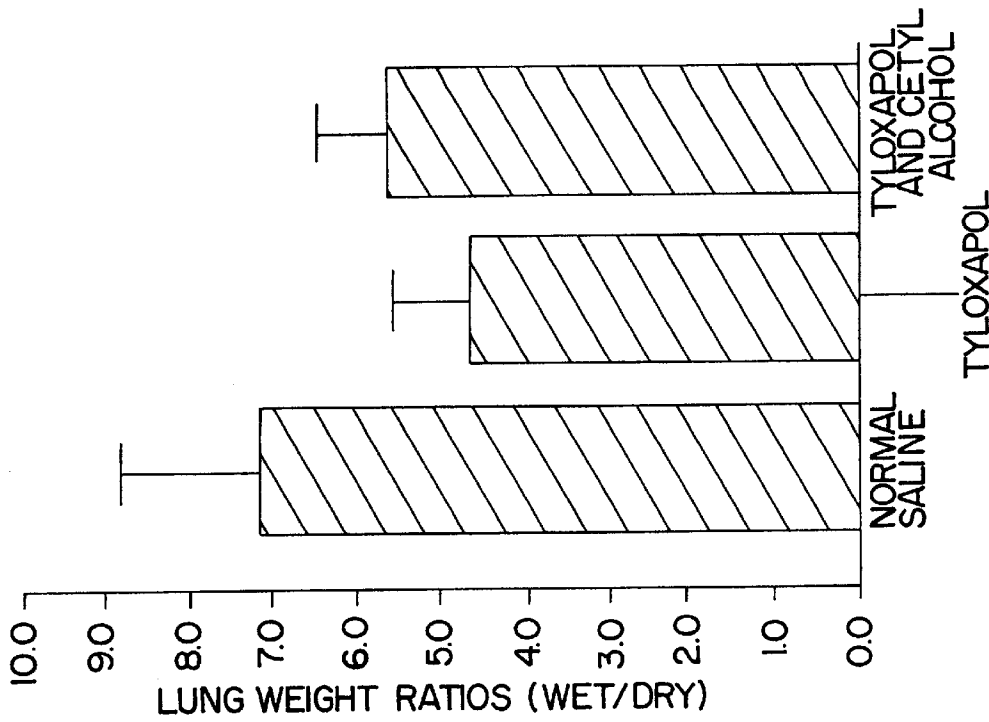


FIG. 3.

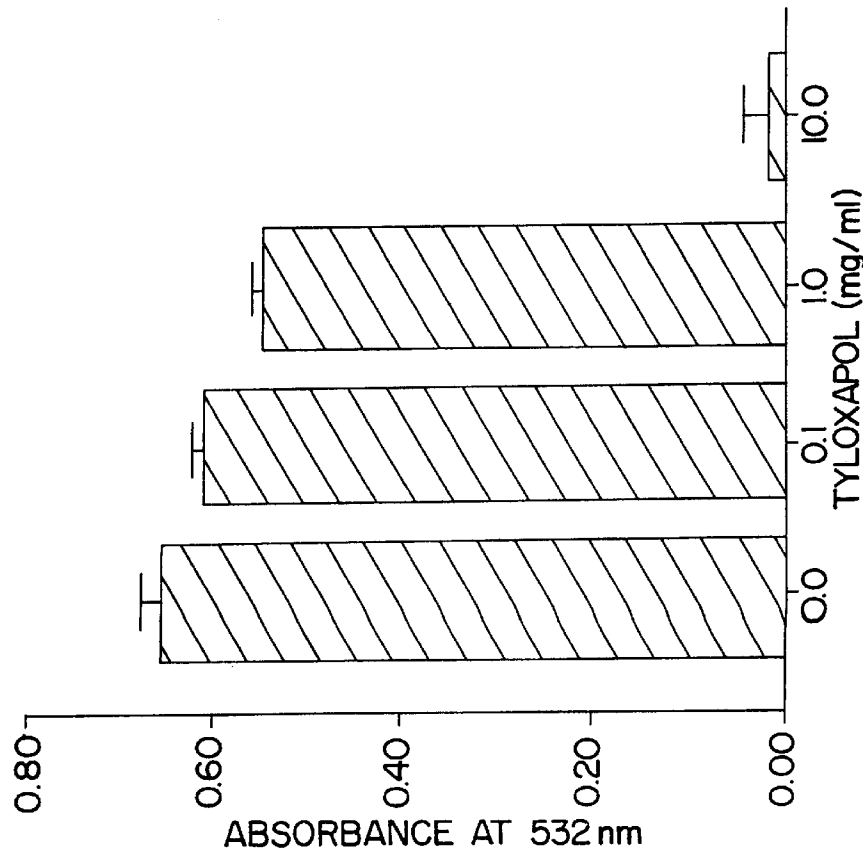


FIG. 2.

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