



[54] PHARMACEUTICAL COMPOSITIONS  
CONTAINING ALKYLARYL POLYETHER  
ALCOHOL POLYMER

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[\*] Notice: This patent issued on a continued prosecution 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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[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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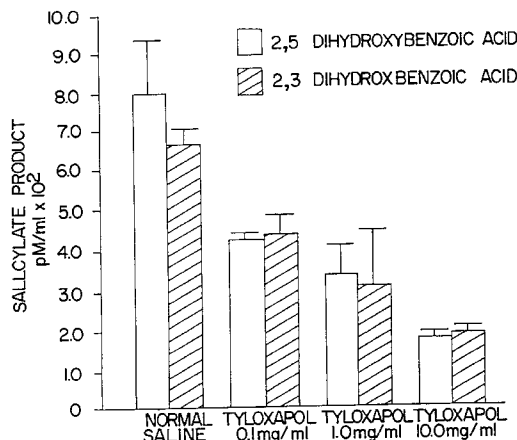
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[57] ABSTRACT

There is provided novel pharmaceutical compositions containing tyloxapol as the active ingredient. These formulations 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 tyloxapol in pharmaceutically acceptable solutions without significant concentrations of hypertonic agents or other active ingredients NaHCO<sub>3</sub>, 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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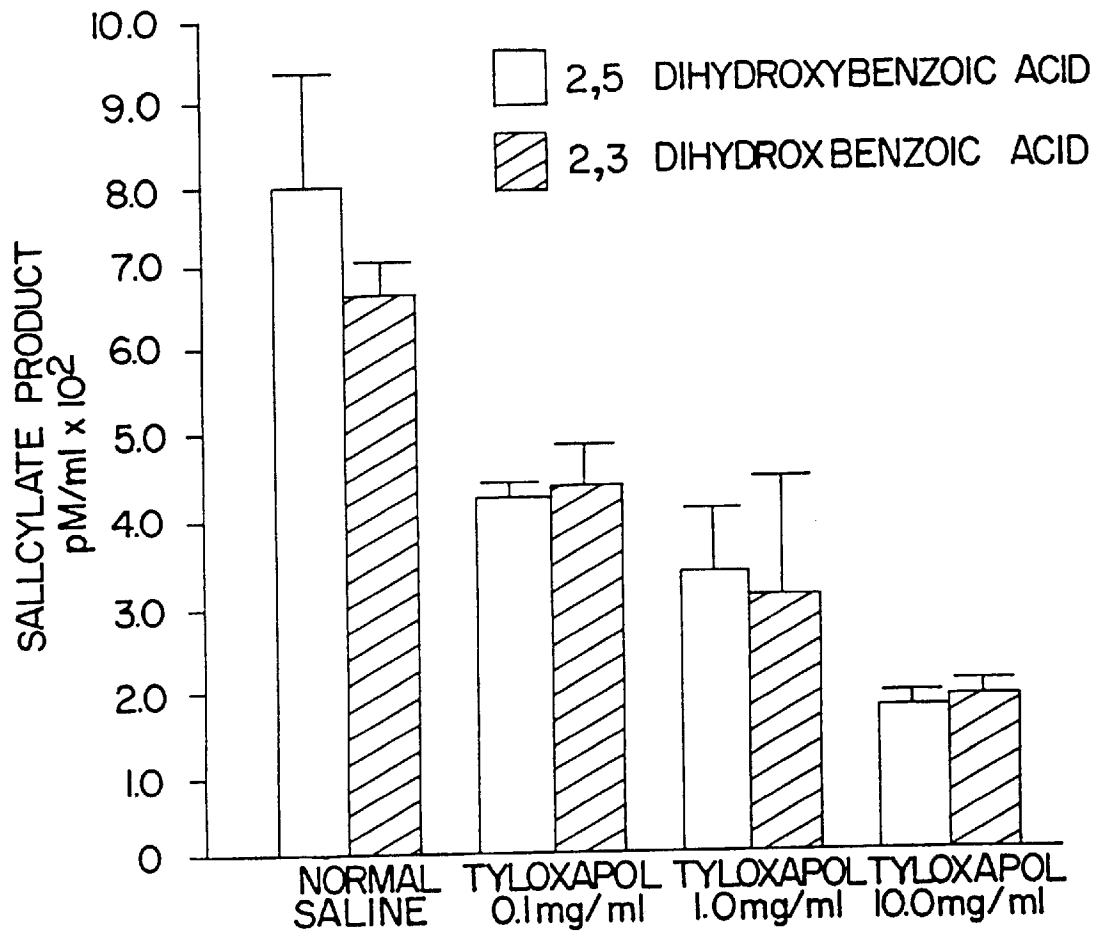


FIG. 1.

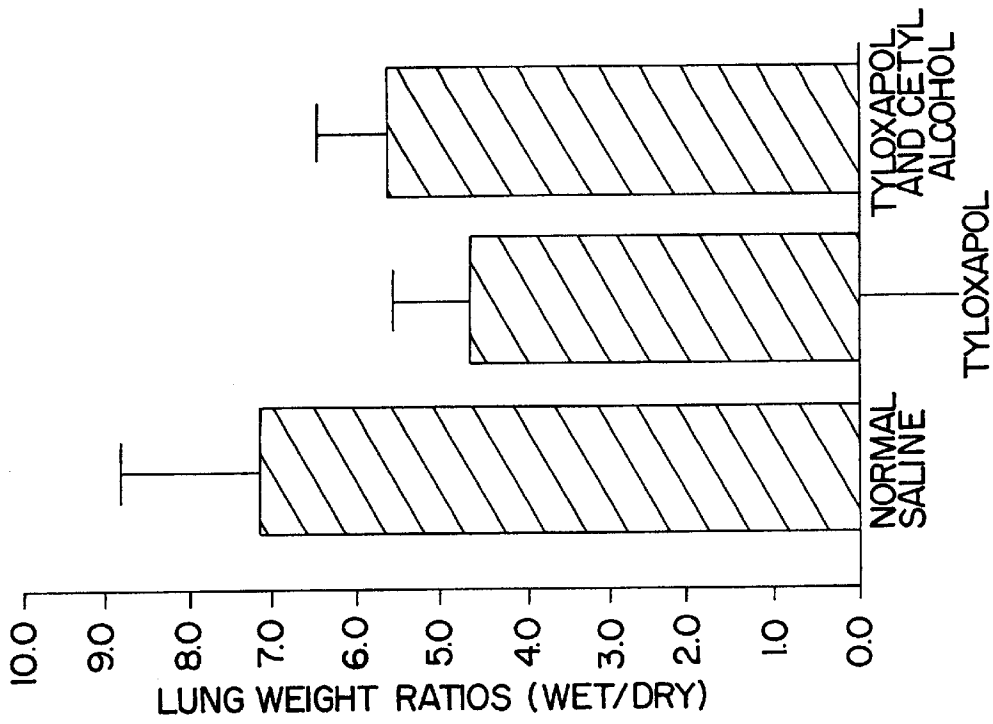


FIG. 3.

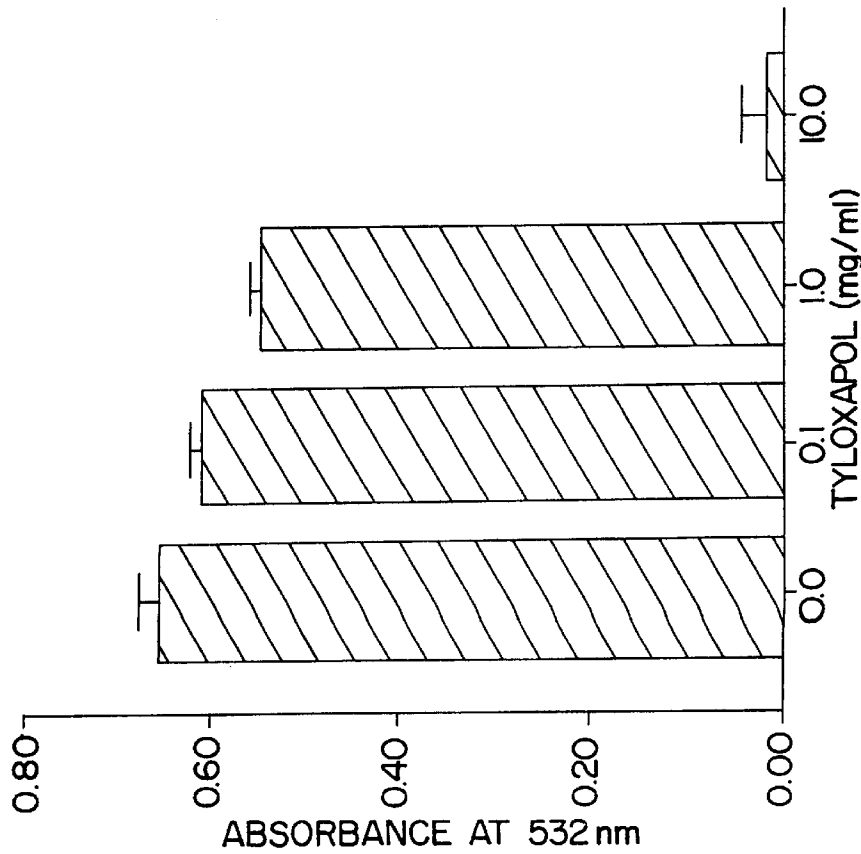


FIG. 2.

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