

➤ Scifinder

我以常用的鎮靜安眠藥為主題，搜尋” Lorazepam formulation”，以下為搜尋到的其中一筆資料：

Article Title

Development and Evaluation of Lorazepam Microemulsions for Parenteral Delivery

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Abstract :

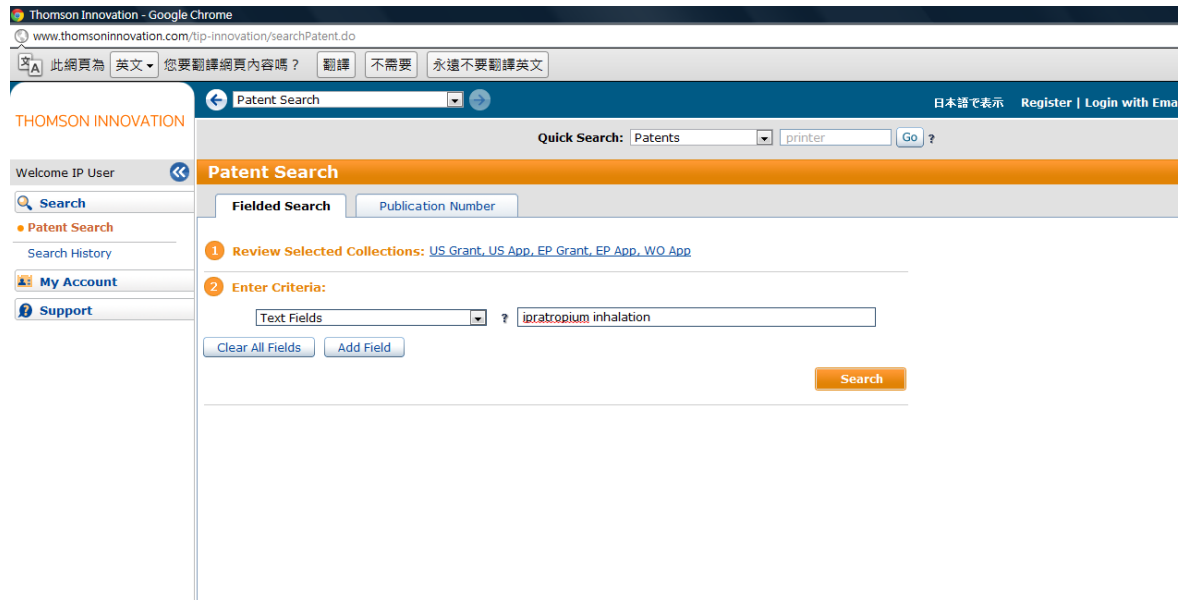
The objective of this investigation was to develop lorazepam (LZM) microemulsions as an alternative to the conventional cosolvent based formulation. Solubility of LZM in various oils and Tween 80 was determined. The ternary diagram was plotted to identify area of microemulsion existence and a suitable composition was identified to achieve desired LZM concentration. The LZM microemulsions were evaluated for compatibility with parenteral fluids, globule size, in vitro hemolysis and stability of LZM. Capmul MCM demonstrated highest solubilizing potential for LZM and was used as an oily phase. LZM microemulsions were compatible with parenteral dilution fluids and exhibited mean globule size less than 200 nm. The in vitro hemolysis studies indicated that microemulsions were well tolerated by erythrocytes. The LZM microemulsions containing amino acids exhibited good physical and chemical stability when subjected to refrigeration for 6 months.

心得：

我覺得 Scifinder 真的是很便利的搜尋平台，除了可以用關鍵字搜尋，還可以利用過濾的工具，將龐雜的資料逐步縮小範圍，而能快速得到想要的資訊，非常省時而便利。此外還可以看到清楚的結構，以及合成的方法，對研究與工業上的研發都是很方便的工具！

➤ Thomson innovation

在這裡我以 ipratropium inhalation 為主題進行專利查詢，因為我發現氣喘及慢性肺病是一般人不會很重視，但有這類問題的人也不少，尤其是在老年人身上，可以觀察到在一些長照機構中也常會用到這類氣喘吸入劑。而且吸入劑相較於口服給藥是一種比較特別的投藥方式，如果我今天是研發人員，就可以利用這個專利平台搜尋現有的設計，對於投藥方式的改良及發明會很有幫助。



搜尋結果



專利編號：[US8084461B2](#)

內文

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DWPI Title ?
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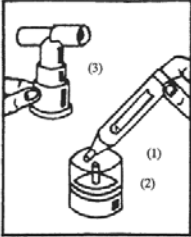
Original Title ?
Albuterol and ipratropium inhalation solution, system, kit and method for relieving symptoms of chronic obstructive pulmonary disease

Abstract ?
The present invention relates to a dual bronchodilator inhalation solution, system, kit and method for relieving bronchospasm in patients suffering from chronic obstructive pulmonary disease (COPD). In one alternative embodiment, the solution of the present invention is a prepackaged, sterile, premixed, premeasured single unit dose of albuterol and ipratropium bromide for patients suffering from COPD. The present solution may be free of antimicrobial preservatives, such as benzalkonium chloride. In another alternative embodiment, the solution of the present invention comprises about 2.50 mg albuterol and about 0.50 mg ipratropium bromide in a 0.5 ml volume.

First Claim ?
1. A method of inducing bronchodilation or providing relief of bronchospasm in an individual suffering from chronic obstructive pulmonary disease, said method comprising the step of:

- (a) providing one or more single dispensing containers; the one or more containers each being prefilled with a content of about 0.1 ml to about 0.5 ml of a premixed, premeasured aqueous inhalation solution comprising a single unit dose of a therapeutically effective amount of albuterol and ipratropium bromide; wherein the amount of albuterol is about 0.5 mg to about 5.0 mg and the amount of ipratropium bromide is about 0.1 mg to about 1.0 mg; and
- (b) administering the inhalation solution in one of the containers from a nebulizer chamber such that the mist is removed from the nebulizer chamber in less than 12 minutes.

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