

濃縮超聲藕合劑

A Concentrated Ultrasound Coupling Agent

一種容易稀釋、儲存和運送的超聲藕合劑

An ultrasound gel that is easy to dilute, store and transport

專利申請編號及國家：CN0 102370996 B (中國)

特色與優點

- 濃縮超聲藕合劑方便產品的運輸和儲存，減低相關成本
- 可用於藥物超聲波導入療法，稀釋親水藥劑溶液

應用

- 超聲波影像素描
- 藥物超聲導入療法

本發明包括一種濃縮超聲藕合劑，以及其製備和使用方法。該濃縮超聲藕合劑包含粘度調節劑、潤滑劑、pH調節劑和殺菌劑，亦可以加入著色劑以及香料。製備該醫用超聲藕合劑的主要步驟包括：溶脹粘度調節劑、混合攪拌原料、調節酸鹼值等步驟。由此製得的濃縮超聲藕合劑使用方便，只需在使用前用蒸餾水稀釋以達到所要求程度即可。此外，本超聲藕合劑高度濃縮，縮減了包裝的塑料容器，減少對環境的化學污染，同時方便運輸和儲存，降低了相關成本。這超聲藕合劑便於即配即用，可以減少，甚至不使用防腐劑。相關技術也可用於藥物超聲波導入療法，稀釋親水藥劑溶液。



藕合劑用於超聲波影像素描
Using of conductive gel in ultrasound imaging



濃縮超聲藕合劑
Concentrated ultrasound coupling gel agent

Patent Application No: CN0 102370996 B (PRC)

Special Features and Advantages

- A highly concentrated gel that reduces the weight and required space in, and costs of transportation and storage
- Preparing hydrophilic agents for ultrasound-controlled medicine delivery into human body

Applications

- Ultrasound imaging
- Ultrasound-controlled medicine delivery

This invention is the methods of making and using a new concentrated ultrasound coupling agent. The concentrated ultrasound coupling agent consists of viscosity modifiers, lubricants, pH adjusting agents and fungicides. Coloring and perfumes may be added as well. The agent's preparation steps include viscosity modifiers swelling, raw material mixing, and pH value adjusting, etc. The concentrated ultrasound coupling agent is easy to use, and can be diluted simply with distilled water prior to use in order to meet the medical treatment requirements. While this new highly concentrated ultrasound agent reduces the use of plastic containers, and thus reduces the chemical contamination of the environment. It is highly concentrated that space and weight can be significantly reduced during transportation and storage. The invention can reduce the use of preservatives, and even do not use any. The related techniques can also be used in dilution of hydrophilic agents in ultrasound-medicated treatments.

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