

1997 年及 2000 年分别取得 2 项美国独家专利

微米专利

专利字号:6740338

Derma CoQ10 Therapeutic Anti-aging Cream
United States Patent: 6,740,338
Reduced form of Censyme Q in high bioavailability

Abstract

The present invention relates to a reduced form of Coenzyme Q also known as ubiquinol in oral dosage form such as a gelatin capsule, preferably a soft gelatin capsule. Compositions according to the present invention include storage stable compositions comprising effective amounts of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated in capsules, tablets and other orally administrable form. Methods of use are also disclosed.

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Filed: January 20, 2000
Current U.S. Class: 424/456; 424/400; 424/430; 424/451; 424/455; 424/460; 424/464; 424/420; 514/404; 514/466
Int'l. Class: A61K 00364; A61K 00945; A61K 00920; A61K 04700; A61K 00660
Field of Search: 424/456,459,455,464,456,400,409,463, 514/404,365,720

Primary Examiner: Peter Thurman K.
Assistant Examiner: Sheila Harner N.
Attorney, Agent or Firm: Coleman, Henry D., Sedco; E. Neil Sapone; William J.

Claims

What is claimed is:

1. A composition comprising ubiquinone and an amount of ascorbyl palmitate as a reducing agent effective to reduce said ubiquinone to ubiquinol, said composition further comprising an amount of a pharmaceutically acceptable surfactant, triglyceride, vegetable oil or mixture thereof optionally in combination with a solvent, effective to solubilize said ubiquinone, ubiquinol and said reducing agent, wherein said ubiquinol, after reduction of said ubiquinone, comprises more than 95% by weight of a total amount of ubiquinol and ubiquinone in said composition.
2. The composition according to claim 1 wherein said surfactant is selected from the group

水溶性专利

专利字号:6056971

Derma CoQ10 Therapeutic Anti-aging Cream

United States Patent: 8,740,888

Reduced form of Coenzyme Q in high bioavailability

Abstract

The present invention relates to a reduced form of Coenzyme Q also known as ubiquinol in oral dosage form such as a gelatin capsule, preferably a soft gelatin capsule. Compositions according to the present invention include storage *stns* a composition comprising effective amounts of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated in capsules, tablets and other orally administrable form. Methods of use are also disclosed.

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Intern'l. Class:

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04700; A61K 00460

Field of Search:

424/496,451,455,463,464,479,490,496,498,499,503
514/604,956,730

Primary Examiner: Dign; Thurman K.

Assistant Examiner: Sheikh; Humera N.

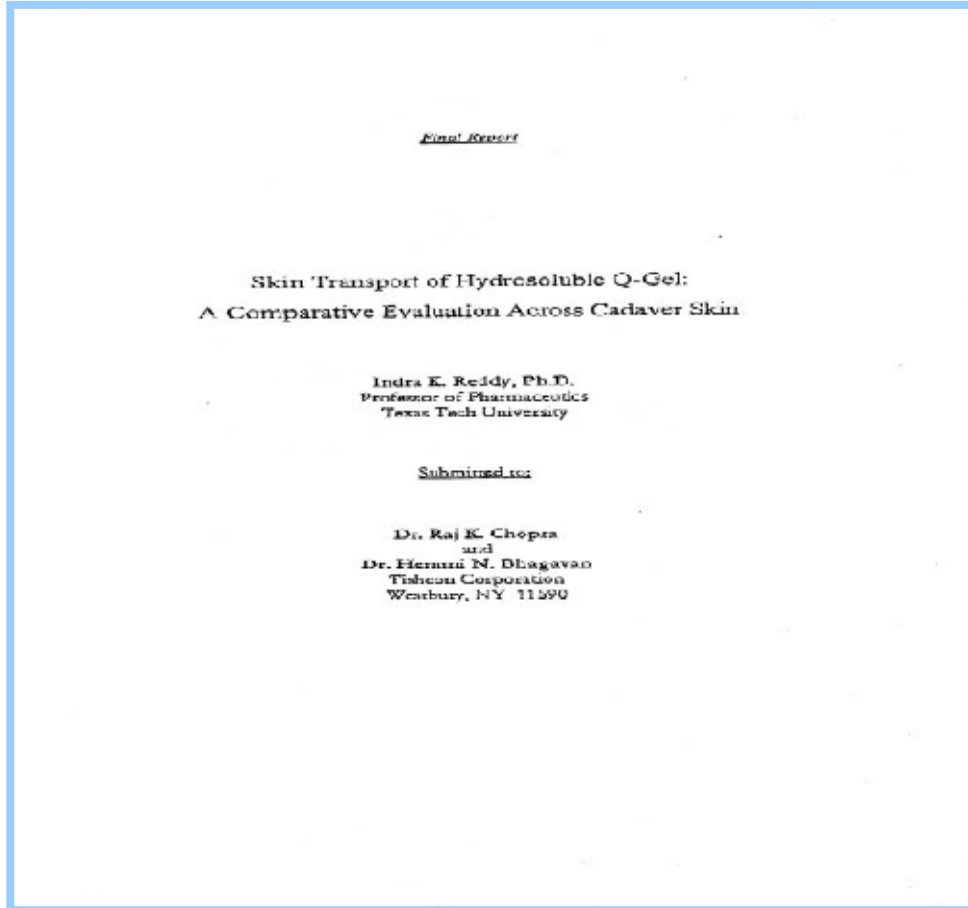
Attorney, Agent or Firm: Coleman; Henry D.; Sadol; E. Neil; Sapers; William J.

Claims

What is claimed is:

1. A composition comprising ubiquinol and an amount of acetyl palmitate as a reducing agent effective to reduce said ubiquinol to ubiquinol, said composition further comprising an amount of a pharmaceutically acceptable surfactant, triglyceride, vegetable oil, or mixture thereof optimally in combination with a solvent, effective to solubilize said ubiquinol, ubiquinol and said reducing agent, wherein said ubiquinol, after reduction of said ubiquinol, comprises more than 25% by weight of a total amount of ubiquinol and ubiquinol in said composition.
2. The composition according to claim 1, wherein said surfactant is selected from the group

实验报告



专利的特殊成份，经德州大学临床实验证实，分子极细，其渗透力极强，能直接补充细胞所需的养份