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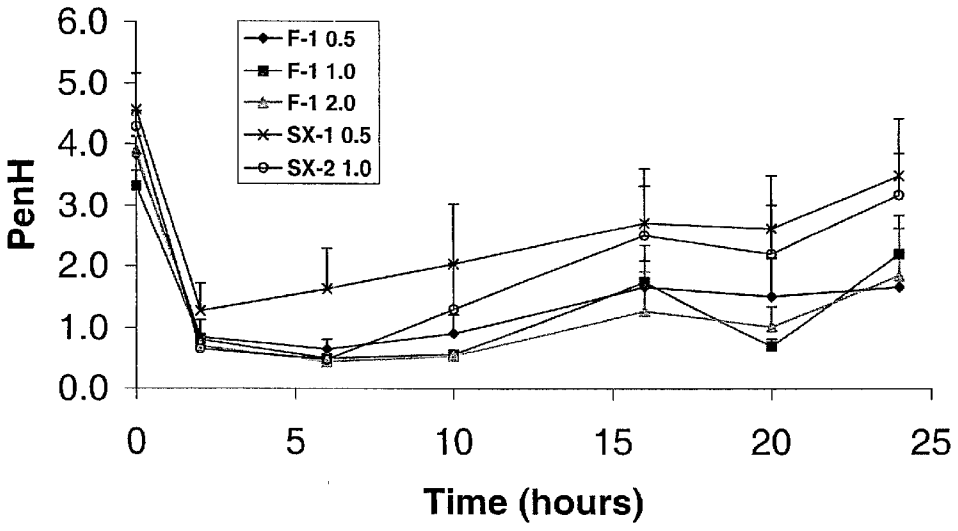
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(54) Title: HIGHLY EFFICIENT DELIVERY OF A LARGE THERAPEUTIC MASS AEROSOL



(57) Abstract: A method for delivering an agent to the pulmonary system, in a single, breath-activated step or a single breath, comprises administering from a receptacle enclosing a mass of particles, to a subject's respiratory tract, particles which have a tap density of less than 0.4 g/cm^3 and deliver at least about 50 % of the mass of particles. The particles are capable of carrying agents. The agent is: 1) part of the spray-drying pre-mixture and thereby incorporated into the particles; 2) added to separately-prepared particles so that the agent is in chemical association with the particles; or 3) blended so that the agent is mixed with, and co-delivered with the particles. Respirable compositions comprising carrier particles having a tap density of less than 0.4 g/cm^3 and a composition comprising an agent are also disclosed. Methods of delivering these respirable compositions are also included.

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