

论文

激光散射法测定药用混悬剂颗粒大小的分布

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摘要:

本文报告一种激光散射法测定静脉注射混悬剂的颗粒大小分布情况。先将混悬液雾化成为气溶胶,然后送入国产光明JGD-101型尘粒计数仪的散射腔内,对各档颗粒进行自动计数。为了验证该仪器测量结果的可靠性,使用了同类型进口尘粒计数仪及其他三种检测法(光学显微镜计数法电子显微镜照相法及库特氏计数仪法),分别检测同一样品,并将结果与激光散射法进行比较,所有结果表明与激光散射法的结果一致。

关键词:

DETERMINATION OF PARTICLE SIZE DISTRIBUTION OF PHARMACEUTICAL SUSPENSION BY LASER-SCATTERING METHOD

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Abstract:

A laser-scattering method for the determination of particle size distribution of pharmaceutical suspension intended for intravenous use is proposed. By this method, after the suspension had been aerosolized, it was passed into the scattering cavity of Guang Ming dust particle counter (model JDG-101, made in China), the number of aerosol particles were counted automatically in certain size ranges (e. g. 0.3 μm, 0.5 μm, 1.0 μm, 2.0 μm, 5.0 μm). In order to prove the validity of our results, an imported dust particle counter apparatus and other three detecting methods were employed for comparison. It was found that all results obtained by the above mentioned apparatus and methods were in considerable conformity with those obtained by the proposed laser-scattering method using the apparatus of our own make.

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