NANOTECHNOLOGY IN PHARMACEUTICAL MANUFACTURING

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1 INTRODUCTION

Nanotechnology is the ability to produce and process nanosized materials or manipulate objects within the nanoscale. The nanoscale commonly indicates the range from 1 to 100 nm [1]. However, some scientists regard the nanoscale range from 1 to 200 nm [2], even to 1000 nm [3]. Making a comparison with a human hair, it is about 80,000 nm wide. Nanotechnology is a broad, highly interdisciplinary, and still evolving field which involves the production and application of physical, chemical, and biological systems. Nanotechnology is likely to have a profound impact on our economy and society in the early twenty-first century, perhaps comparable to that of information technology or advances in cellular and molecular biology. Science and engineering research in nanotechnology promises breakthroughs in areas such

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