Aerosolized Brittle Matrices for Pulmonary Delivery

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Introduction

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Formulation

- Bulk density (g/mL)
- Tap density (g/mL)
- Hausner ratio
- Carr’s index

Results

Materials

Hypothesis

Highly reactive nitro derivative monomers can be produced in the main chain of aerosolized brittle matrices in a passive inhalation device.

Methods

Characterization

- Powder X-ray Diffraction (PXRD)
- FTIR
- DSC

- Morphology
- SEM
- TEM
- Thermo-Gravimetric Analysis (TGA)
- Differential Scanning Calorimetry (DSC)
- Dynamic Mechanical Analysis (DMA)
- X-ray Powder Diffraction

- Drug Product
- Aerosol Product

- Active Ingredients
- Aerosol Product

- In vitro Pharmacology

- Pharmacology And Toxicology

- Pharmacokinetics

- Quality Control

1. Aerosolized Brittle Matrices
2. Drug Delivery

- Formulation
- Characterization
- Results

- Conclusion