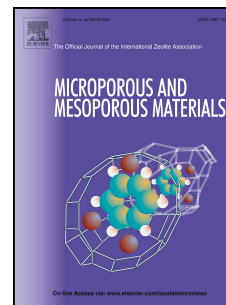


Accepted Manuscript

Inhalable microspheres with hierarchical pore size for tuning the release of biotherapeutics in lungs

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PII: S1387-1811(16)30338-9

DOI: [10.1016/j.micromeso.2016.08.009](https://doi.org/10.1016/j.micromeso.2016.08.009)

Reference: MICMAT 7848

To appear in: *Microporous and Mesoporous Materials*

Received Date: 16 June 2016

Revised Date: 26 July 2016

Accepted Date: 12 August 2016

Please cite this article as: A. Sharma, K. Vaghasiya, R.K. Verma, Inhalable microspheres with hierarchical pore size for tuning the release of biotherapeutics in lungs, *Microporous and Mesoporous Materials* (2016), doi: 10.1016/j.micromeso.2016.08.009.

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Highlights

- Facile method is presented to develop hierarchically porous PLA-MS for pulmonary application of therapeutics of varied molecular size.
- Precise control over porosity and particle sizes of PLA-MS can be attained by using different concentrations of porogens.
- As MMAD decreased with increase in porosity, the effect of particle size on deposition was less pronounced because of the decreased density of particles.
- Apart from geometric size, macrophage uptake of PLA-MS is also governed porosity of MS

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