



RSC Advances

COMMUNICATION

Supplementary Information for

Self-Assembled Nanospheres for Encapsulation and Aerosolization of Rifampicin

Materials and Methods

Experiments described in this report were performed using a lyophilizer (Labconco, freezezone 2.5 L, freeze dry system), an analytical balance (Ohaus Scout Pro Portable), a spectrophotometer (THERMO Genesys 10 UV), an electronic microscope (STEM) FE Hitachi S-5500 with a BF/DF Duo-STEM detector), grids (EMS, carbon film 300 MESH, cooper), nebulizer (Omron, model NE-U22V), and a flowmeter (KEY instruments, series MR 3000, polycarbonate).

RIF ($\geq 97\%$), chloroform (used to homogenize the mixture of lipids and RIF), isopropanol (used to disrupt the structure of the NP), sodium chloride, potassium chloride, sodium phosphate dibasic, potassium dihydrogen phosphate, used to prepare the buffer solutions were all purchased from Sigma Aldrich (St. Louis, MO, USA).