

Supporting Information for

ORIGINAL ARTICLE

Inhaled curcumin mesoporous polydopamine nanoparticles against radiation pneumonitis

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Verification of MPDA chemical structure

The chemical structure of MPDA was identified with the Fourier Transform Infrared spectrometry (FTIR, Spectrum Two, PerkinElmer, USA). The FTIR spectrum (Fig. S1) of MPDA exhibits two bands at 1616 and 1510 cm^{-1} (indicated by black arrows) attributed to the stretching vibration of C–C and C–N, respectively. The peak at 1354 cm^{-1} , which appeared as a shoulder, is assigned to the stretching vibration of the indole ring. The FTIR results demonstrate the chemical structure of MPDA. Other studies also showed the similar results¹.

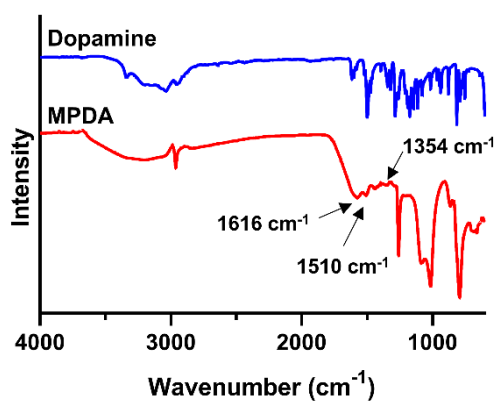


Figure S1 FTIR spectra of dopamine and MPDA.

Reference

1. Liu H, Qu X, Tan H, Song J, Lei M, Kim E, et al. Role of polydopamine's redox-activity on its pro-oxidant, radical-scavenging, and antimicrobial activities. *Acta Biomater* 2019;**88**:181-96.