

Supplementary Information

Figure S1. FT-IR analysis of NCBs and micro-sized CBs. (a) Printex 90; (b) Printex G; (c) Flummass 101; (d) Micro-sized CBs.

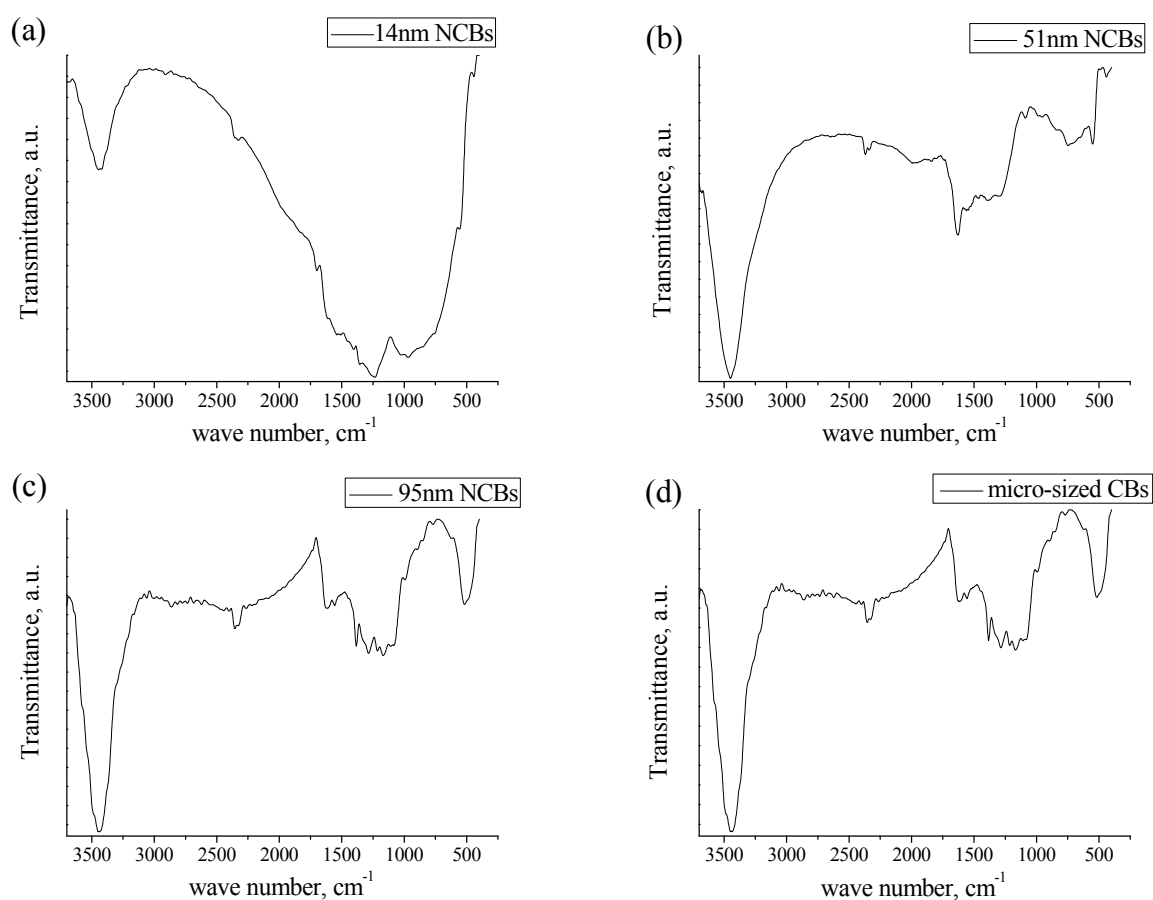


Figure S2. Photos of different sized NCB solution at various concentration. (a) $50 \mu\text{g}\cdot\text{mL}^{-1}$; (b) $200 \mu\text{g}\cdot\text{mL}^{-1}$.

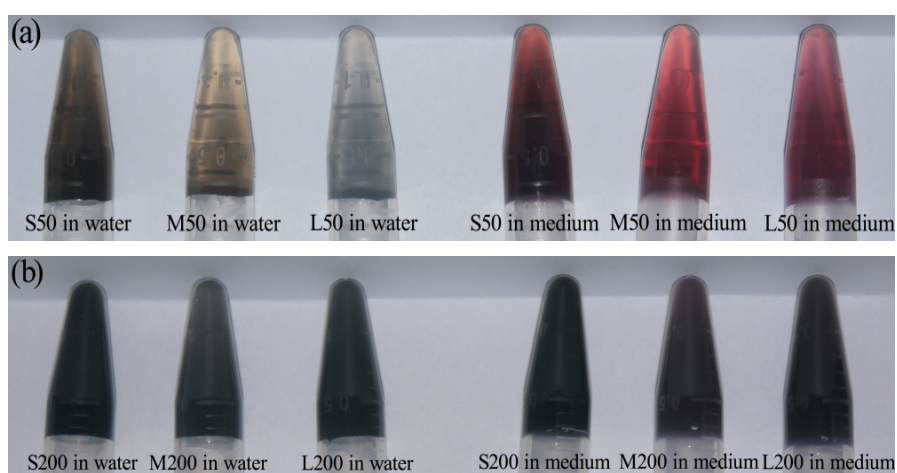


Table S1. The size distribution of NCBs and micro-sized CBs determined by DLS.

CBs	Mean partical size(nm)	
	Water	Medium
Dispersion medium		
14 nm NCBs	95.1	102.2
51 nm NCBs	158.8	176.4
95 nm NCBs	355.2	403.9
micro-sized CBs	2731.8	2917.8

Table S2. The zeta potential of NCBs and micro-sized CBs in cell culture medium.

CBs	Mean zeta potential (mV)
14 nm NCBs	−17.6
51 nm NCBs	−9.7
95 nm NCBs	−8.0
micro-sized CBs	−7.4

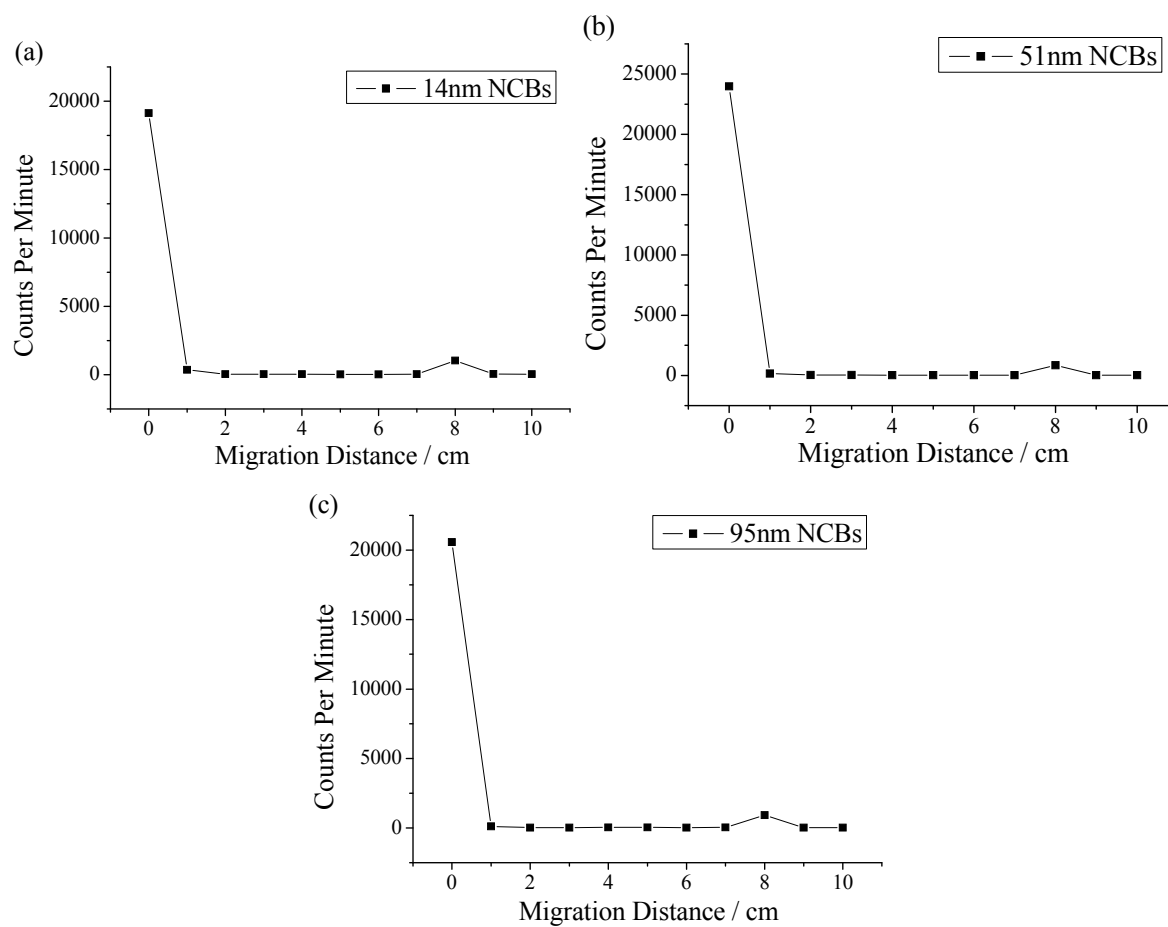
Figure S3. The radiochemical purity of ^{99m}Tc -NCBs after purification. (a) Printex 90; (b) Printex G; (c) Flummass 101.

Figure S4. The radiochemical purity of ^{99m}Tc -NCBs in millipore water and cell culture medium at the time points of 1, 2, 4, 24 and 48 h. (a) Printex 90; (b) Printex G; (c) Flummass 101.

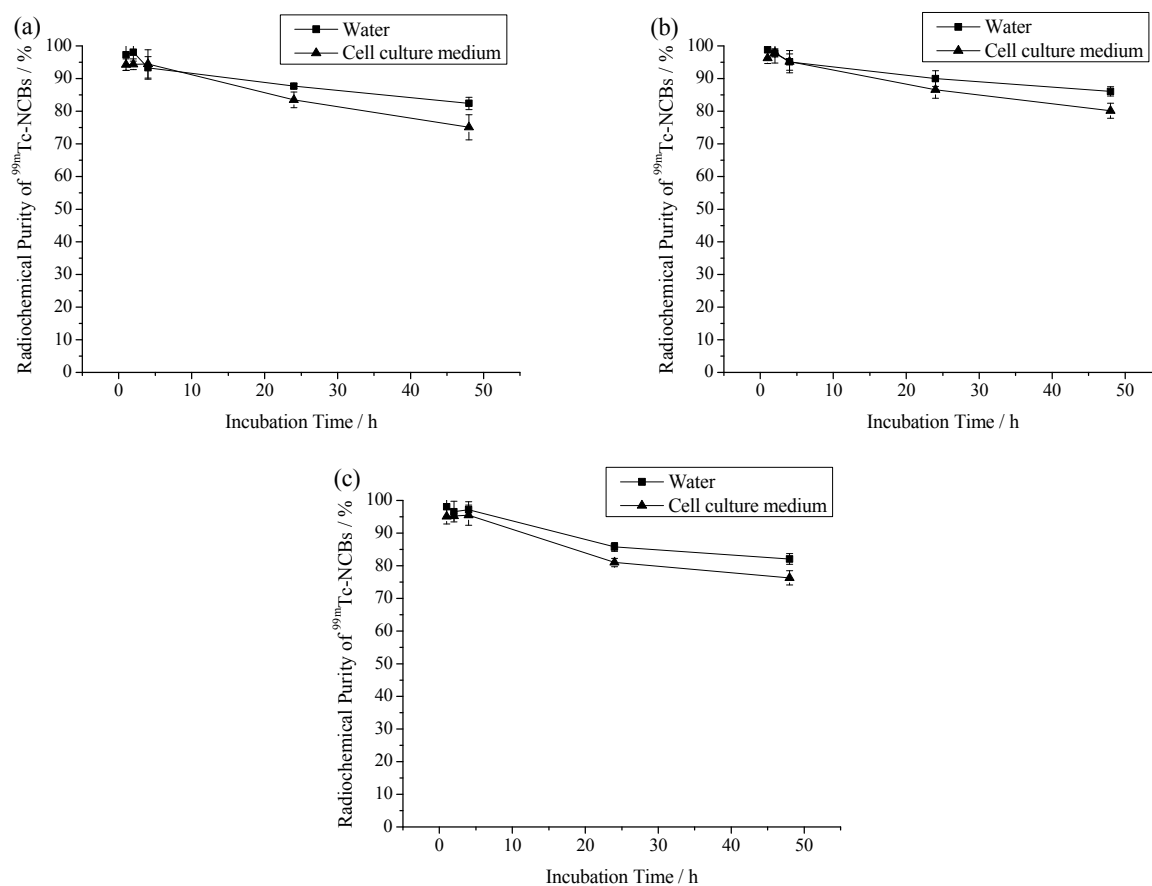


Figure S5. TEM image of micro-sized CBs.

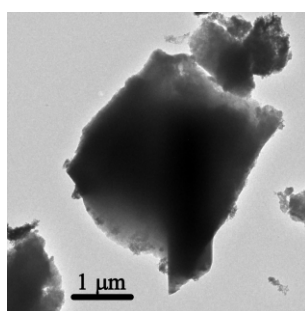
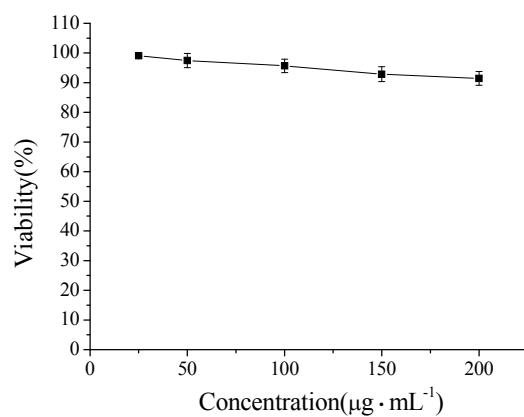


Figure S6. Viability determination of RAW264.7 cells exposed to micro-sized CBs for 24 h.

© 2013 by the authors; licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution license (<http://creativecommons.org/licenses/by/3.0/>).