

SUPPORTING INFORMATION

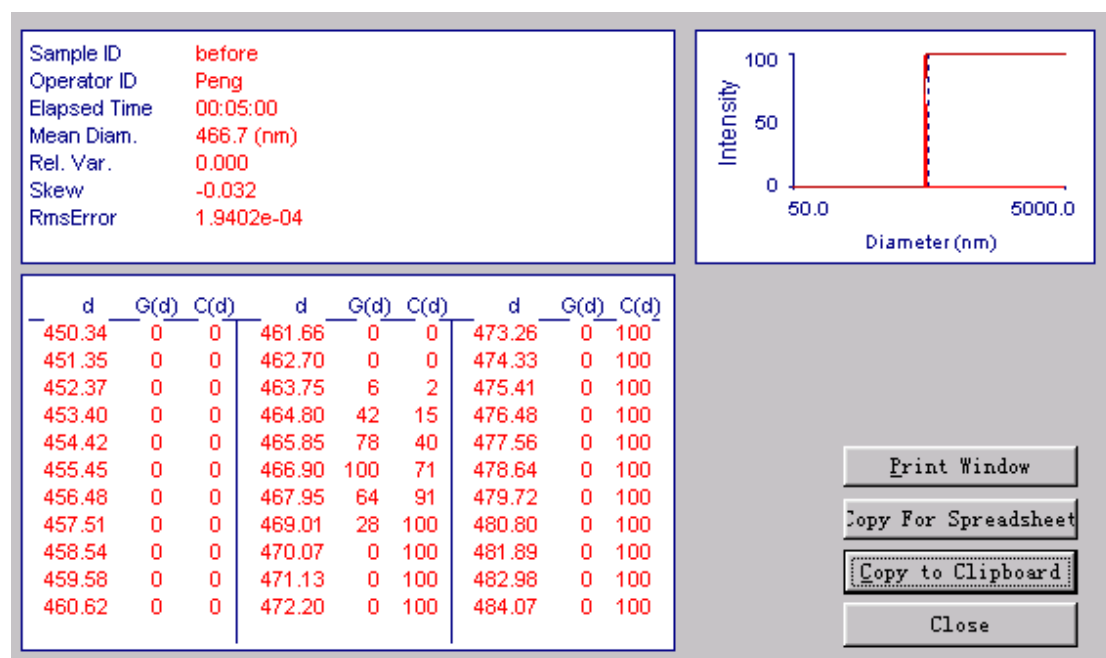
I. Experimental Section

The berberine release experiments

The light-induced release berberine was carried out by exposing the AuNPs-liposomes without dissociative berberine to light of 250 nm wavelength (80W) at a certain time and 25 °C. After irradiation, the release berberine was separated by dialysis the liposomes and the absorbance of berberine solution after dialysis was measured at 345 nm wavelength by UV-Vis spectrophotometer (Aglient UV-8453) and it was converted into concentration using a standard curve, and the relationships between berberine concentrations released from liposome and release time were obtained.

II. Size and size dispersion for AuNPs-liposome before drug release and after drug release (light scattering measurement)

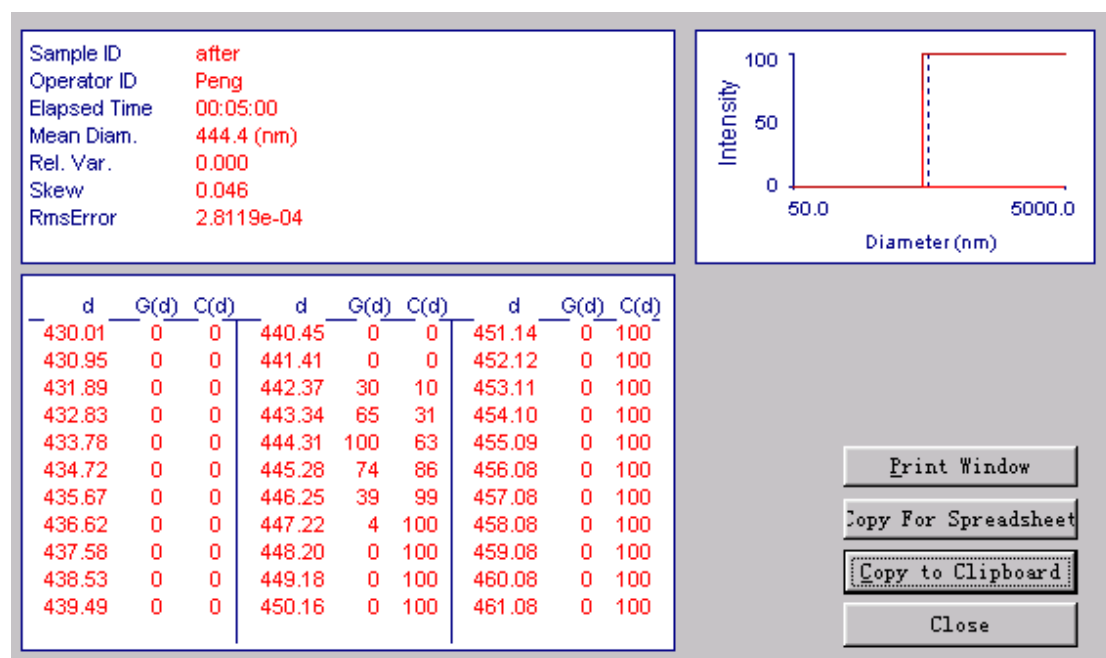
(a) Size and size dispersion for AuNPs-liposome before drug release



4.503365e+02, 0.000000e+00, 0.000000e+00
 4.513542e+02, 0.000000e+00, 0.000000e+00
 4.523742e+02, 0.000000e+00, 0.000000e+00
 4.533965e+02, 0.000000e+00, 0.000000e+00
 4.544211e+02, 0.000000e+00, 0.000000e+00
 4.554480e+02, 0.000000e+00, 0.000000e+00
 4.564772e+02, 0.000000e+00, 0.000000e+00
 4.575088e+02, 0.000000e+00, 0.000000e+00
 4.585427e+02, 0.000000e+00, 0.000000e+00
 4.595789e+02, 0.000000e+00, 0.000000e+00
 4.606175e+02, 0.000000e+00, 0.000000e+00
 4.616584e+02, 0.000000e+00, 0.000000e+00
 4.627018e+02, 0.000000e+00, 0.000000e+00
 4.637473e+02, 6.046797e+00, 1.900646e+00
 4.647953e+02, 4.225926e+01, 1.518370e+01

4.658457e+02, 7.847540e+01, 3.985031e+01
4.668985e+02, 1.000000e+02, 7.128260e+01
4.679536e+02, 6.378885e+01, 9.133289e+01
4.690110e+02, 2.757392e+01, 1.000000e+02
4.700710e+02, 0.000000e+00, 1.000000e+02
4.711332e+02, 0.000000e+00, 1.000000e+02
4.721979e+02, 0.000000e+00, 1.000000e+02
4.732650e+02, 0.000000e+00, 1.000000e+02
4.743345e+02, 0.000000e+00, 1.000000e+02
4.754064e+02, 0.000000e+00, 1.000000e+02
4.764808e+02, 0.000000e+00, 1.000000e+02
4.775576e+02, 0.000000e+00, 1.000000e+02
4.786367e+02, 0.000000e+00, 1.000000e+02
4.797184e+02, 0.000000e+00, 1.000000e+02
4.808025e+02, 0.000000e+00, 1.000000e+02
4.818890e+02, 0.000000e+00, 1.000000e+02
4.829780e+02, 0.000000e+00, 1.000000e+02
4.840695e+02, 0.000000e+00, 1.000000e+02

(b) Size and size dispersion for AuNPs-liposome after drug release



4.300111e+02, 0.000000e+00, 0.000000e+00
4.309496e+02, 0.000000e+00, 0.000000e+00
4.318901e+02, 0.000000e+00, 0.000000e+00
4.328327e+02, 0.000000e+00, 0.000000e+00
4.337773e+02, 0.000000e+00, 0.000000e+00
4.347240e+02, 0.000000e+00, 0.000000e+00
4.356728e+02, 0.000000e+00, 0.000000e+00
4.366237e+02, 0.000000e+00, 0.000000e+00
4.375766e+02, 0.000000e+00, 0.000000e+00

4.385316e+02, 0.000000e+00, 0.000000e+00
4.394887e+02, 0.000000e+00, 0.000000e+00
4.404478e+02, 0.000000e+00, 0.000000e+00
4.414091e+02, 0.000000e+00, 0.000000e+00
4.423725e+02, 3.011223e+01, 9.653683e+00
4.433380e+02, 6.505733e+01, 3.051042e+01
4.443055e+02, 1.000000e+02, 6.256942e+01
4.452752e+02, 7.386232e+01, 8.624895e+01
4.462470e+02, 3.891763e+01, 9.872555e+01
4.472209e+02, 3.975302e+00, 1.000000e+02
4.481970e+02, 0.000000e+00, 1.000000e+02
4.491751e+02, 0.000000e+00, 1.000000e+02
4.501554e+02, 0.000000e+00, 1.000000e+02
4.511379e+02, 0.000000e+00, 1.000000e+02
4.521225e+02, 0.000000e+00, 1.000000e+02
4.531093e+02, 0.000000e+00, 1.000000e+02
4.540981e+02, 0.000000e+00, 1.000000e+02
4.550892e+02, 0.000000e+00, 1.000000e+02
4.560824e+02, 0.000000e+00, 1.000000e+02
4.570778e+02, 0.000000e+00, 1.000000e+02
4.580753e+02, 0.000000e+00, 1.000000e+02
4.590751e+02, 0.000000e+00, 1.000000e+02
4.600770e+02, 0.000000e+00, 1.000000e+02
4.610811e+02, 0.000000e+00, 1.000000e+02