

Supplementary Materials: Laser-Ablative Synthesis of Isotope-Enriched Samarium Oxide Nanoparticles for Nuclear Nanomedicine

Elena Popova-Kuznetsova ¹, Gleb Tikhonowski ¹, Anton A. Popov ^{1,*}, Vladimir Duflo ², Sergey Deyev ^{1,3}, Sergey Klimentov ¹, Irina Zavestovskaya ^{1,4}, Paras N. Prasad ^{1,5,*} and Andrei V. Kabashin ^{1,6,*}

¹ Bionanophotonic Lab., Institute of Engineering Physics for Biomedicine (PhysBio), National Nuclear Research University MEPhI, Moscow 115409, Russia; EAPopovaKuznetsova@mephi.ru (E.P.-K.); gtikhonowski@gmail.com (G.T.); SMKlimentov@mephi.ru (S.K.); INZavestovskaya@mephi.ru (I.Z.)

² Karpov Institute of Physical Chemistry, NIFKhI, Obninsk 249033, Kaluga region, Russia; duflo@mail.ru

³ Shemyakin–Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow 117997, Russia; deye@ibch.ru (S.D.)

⁴ Lebedev Physical Institute of the Russian Academy Sciences, Moscow 119991, Russia

⁵ Department of Chemistry and Institute for Lasers, Photonics, and Biophotonics, University at Buffalo, The State University of New York, Buffalo, NY 14260, USA; pnprasad@buffalo.edu (P.N.P.)

⁶ LP3, Aix Marseille University, CNRS, Marseille 13288, France; kabashin@lp3.univ-mrs.fr (A.V.K.)

* Correspondence: AAPopov@mephi.ru (A.A.P.); pnprasad@buffalo.edu (P.N.P.); kabashin@lp3.univ-mrs.fr (A.V.K.)

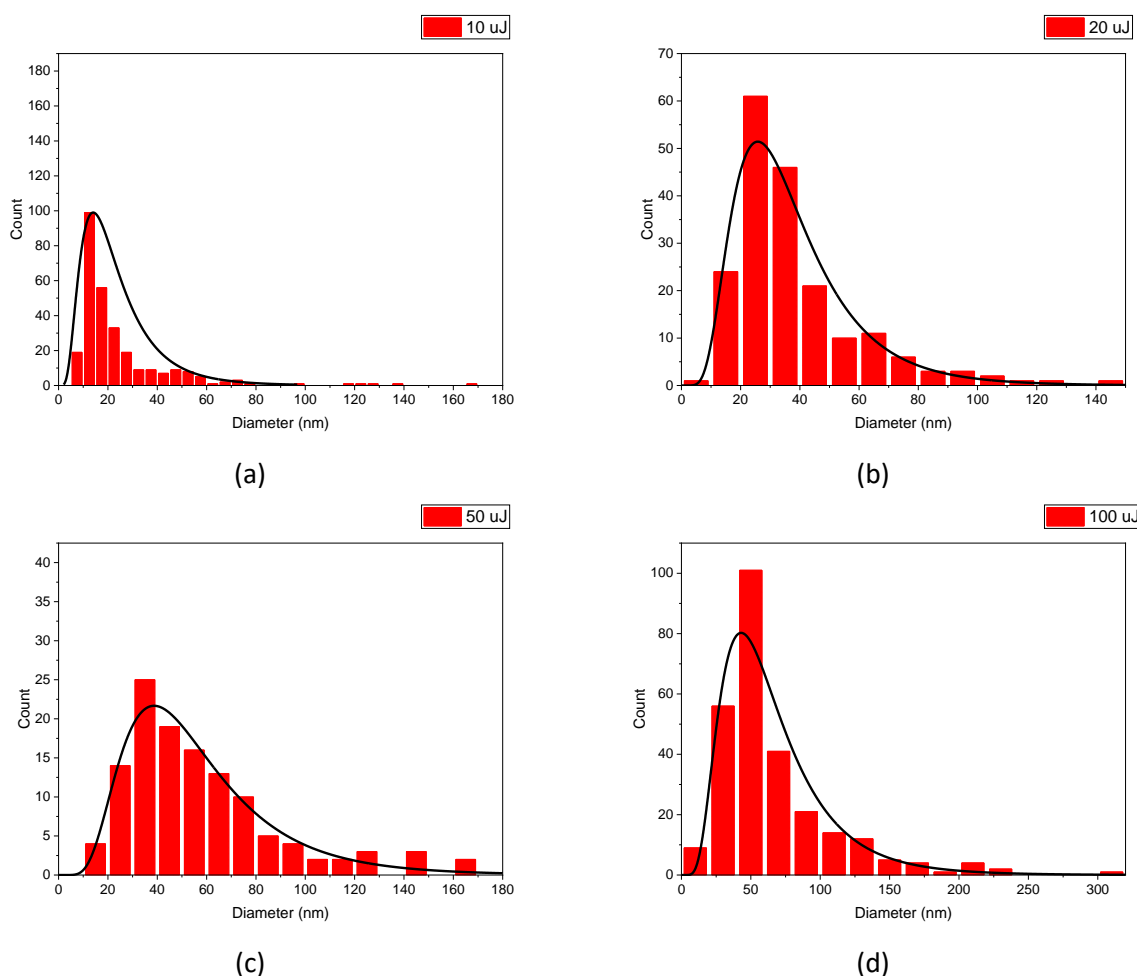


Figure S1. Size histograms of spherical fraction of Sm oxide NPs, obtained by laser ablation at (a) 10 μ J, (b) 20 μ J, (c) 50 μ J and (d) 100 μ J laser energies. The second mode of large NPs could be seen on size distribution at (a) 50 nm, (b) 65 nm, (c) 145 nm and (d) 210 nm.