Supporting Information for

Second Generation Gold Nanobeacons for Robust K-Edge Imaging with Multi-Energy CT

Carsten O. Schirra,1 Angana Senpan,2 Ewald Roessl,3 Axel Thran,3 Allen J. Stacy,2 Lina Wu,2,4 Roland Proska3 and Dipanjan Pan2

1C-TRAIN and Division of Cardiology, Washington University School of Medicine, 4320 Forest Park Avenue, Saint Louis, MO 63108; 2Philips Research North America, 345 Scarborough Road, Briarcliff Manor, NY 10510, USA; 3Philips Research Laboratories, Innovative Technologies, Röntgenstraße 24-26, D-22335 Hamburg, Germany

AUTHOR EMAIL ADDRESS: dipanjan@wustl.edu

Keywords: Multi-energy CT, K-edge imaging; gold nanobeacons; spectral CT; thrombus; sentinel lymphnode imaging; pre-targeting
**Figure 1S:** *In vitro* targeting with GNB₁: A representative spectral CT images of human plasma clot treated with GNB₁, which resulted in a poor SNR and is impossible to distinguish from the surrounding water.
Figure 2S: Stability data showing the variation of hydrodynamic diameter, zeta potential and polydispersity values of GNB₁ and GNB₂ over three months period.