

# Preparation and surface characterization of cerium dioxide for separation of $^{68}\text{Ge}/^{68}\text{Ga}$ and other medicinal radionuclides

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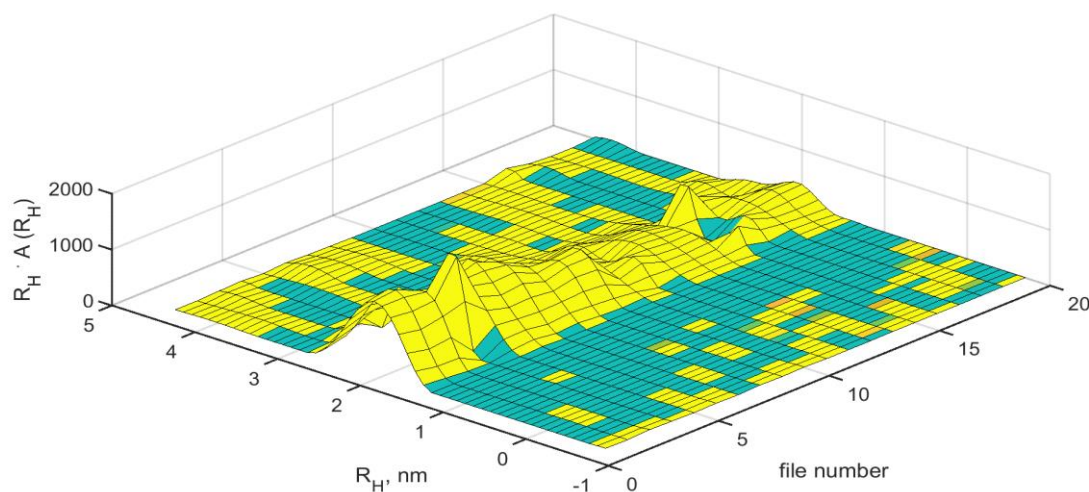
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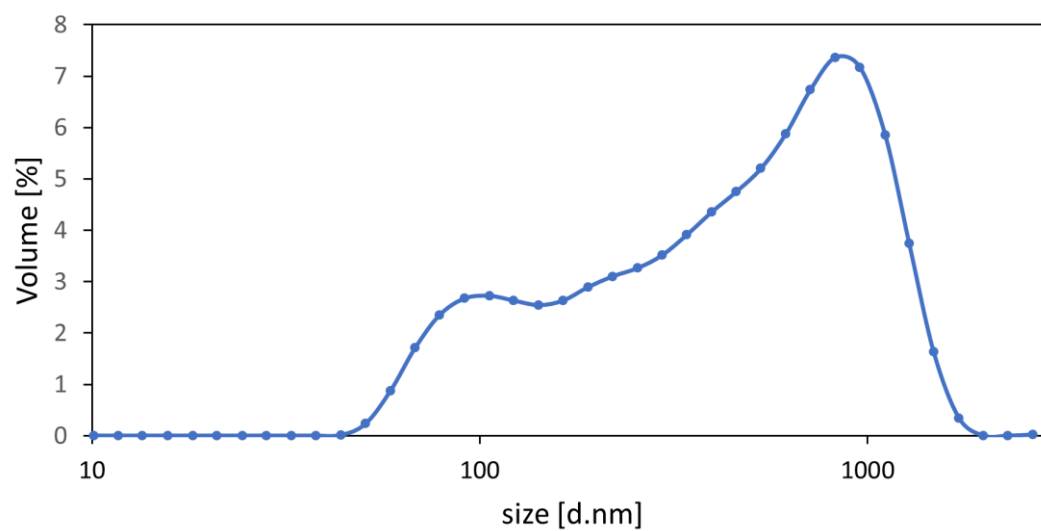
## Supplementary Information

### Dynamic light scattering analysis

For dynamic light scattering analysis Zetasizer NanoZS instrument, model ZEN3600 (Malvern Instruments) was used and the intensity-weighted hydrodynamic radius,  $R_H$ , scattering intensity, and zeta potential,  $\zeta$ , were measured. Repeated measurements at 25°C with scattering angle 173° were carried out. The concentration of cerium dioxide was 0.1 mg/ml in ultrapure water.



**Figure S1:** Intensity-weighted hydrodynamic radius distribution, repeated measurements



**Figure S2:** Volume distribution of cerium dioxide particle size