

ELECTRONIC SUPPLEMENTARY INFORMATION (ESI)

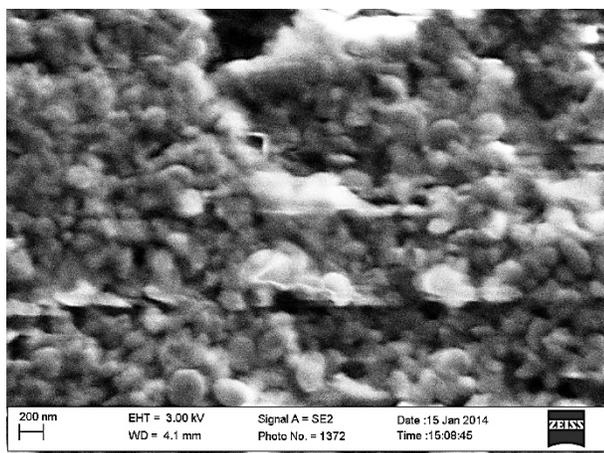
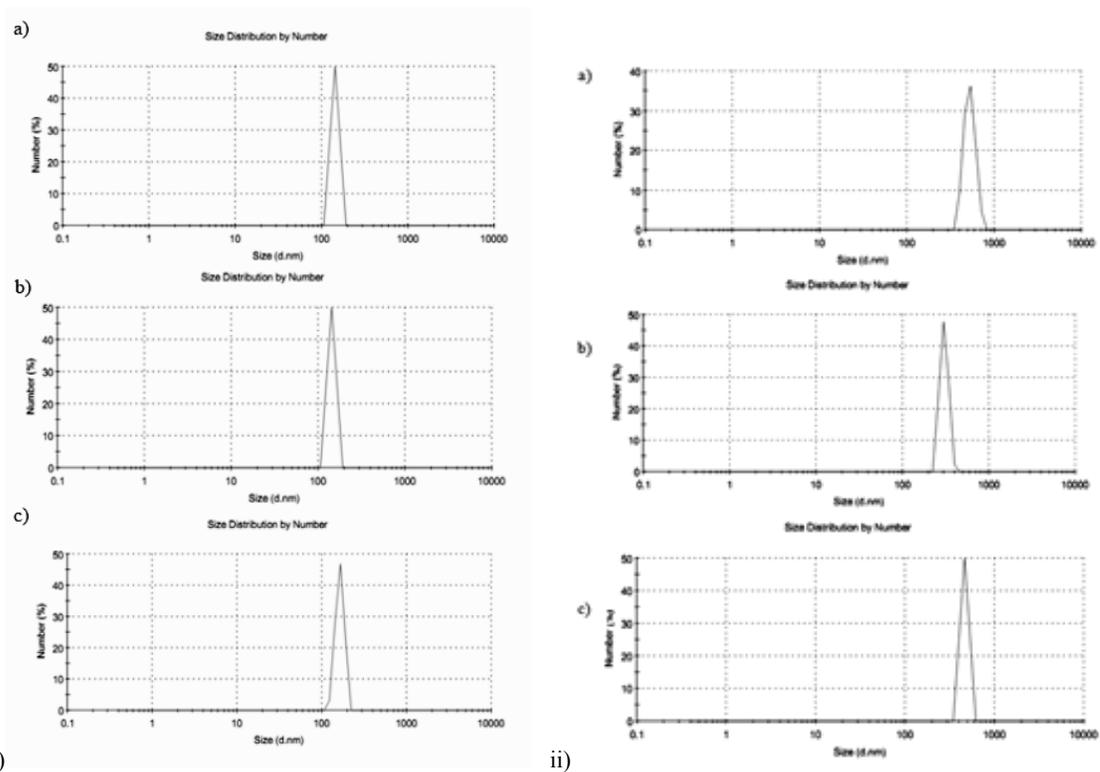


Figure E.S.I. 2 SEM micrograph of Ca_{span}

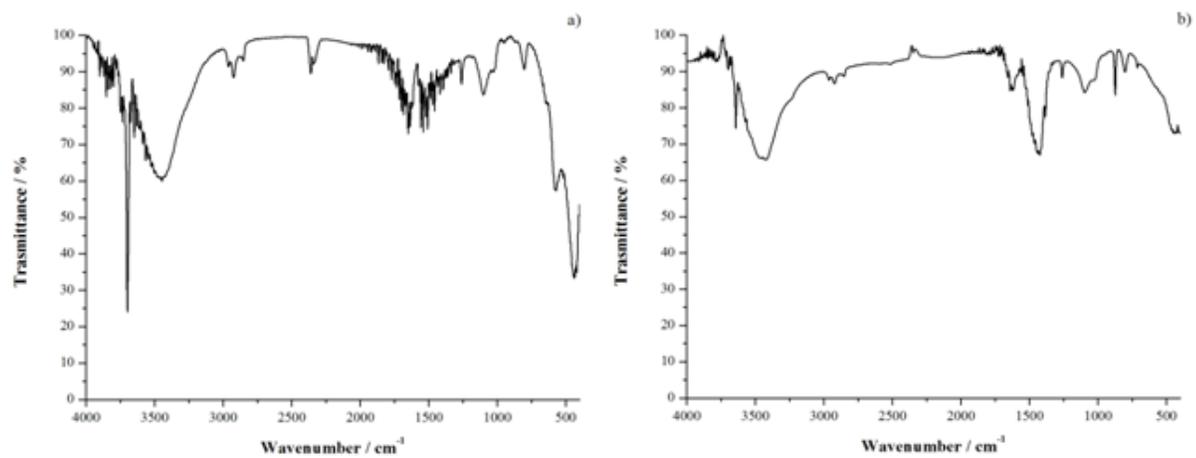


Figure E.S.I. 3. a). IR spectra of $Mg(OH)_2$ (a) and $Ca(OH)_2$ (b) NPs synthesized with 3:1 mix

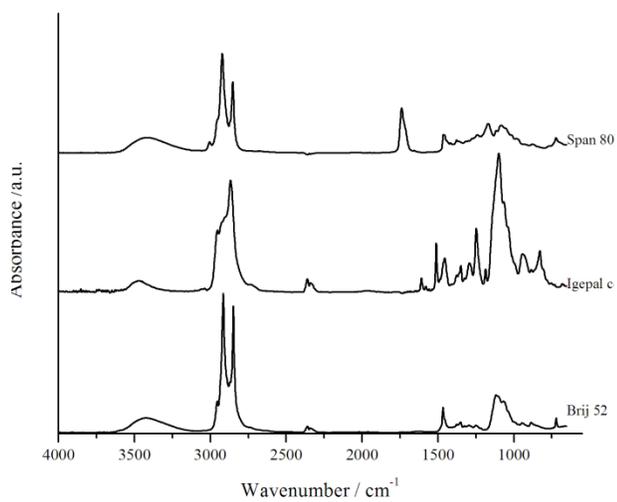


Figure E.S.I. 4. Raman spectra of the used surfactants

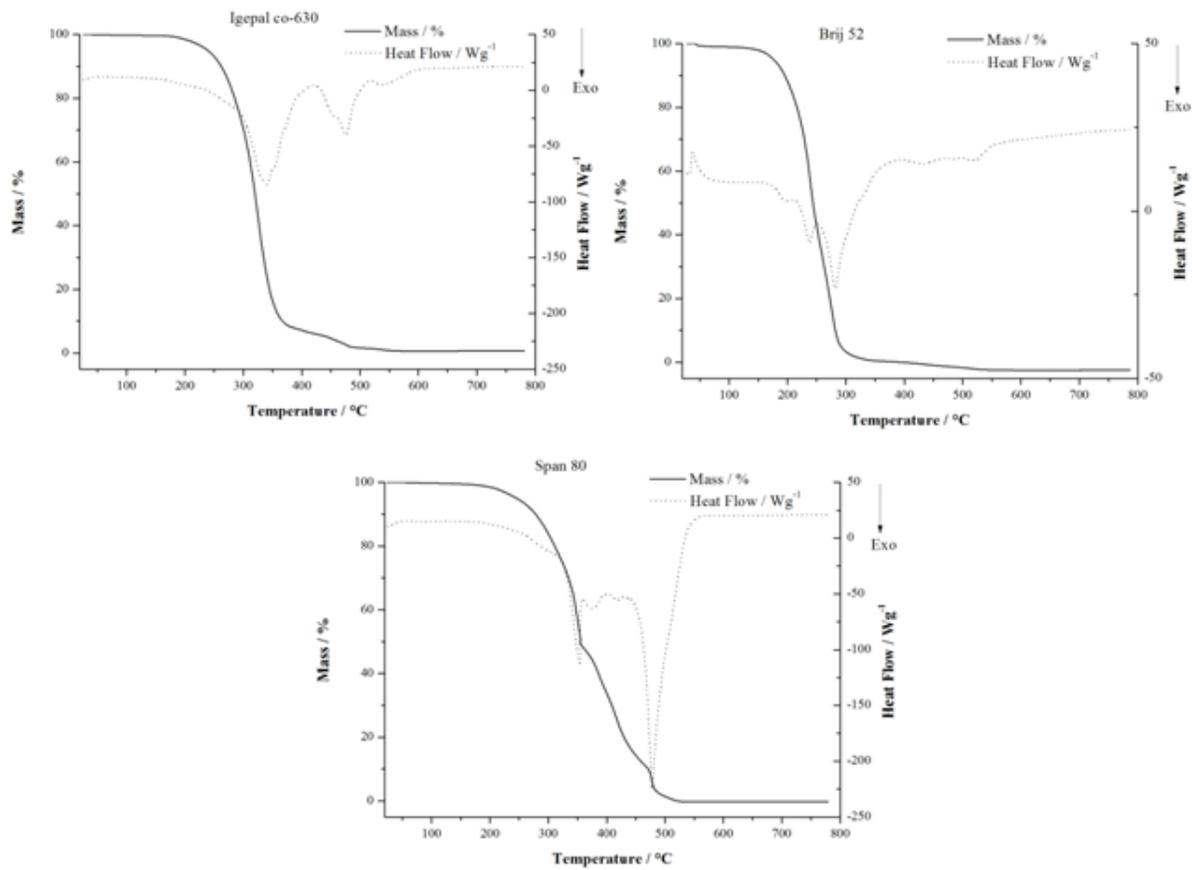


Figure E.S.I. 5. TGA-DSC data of pure surfactants

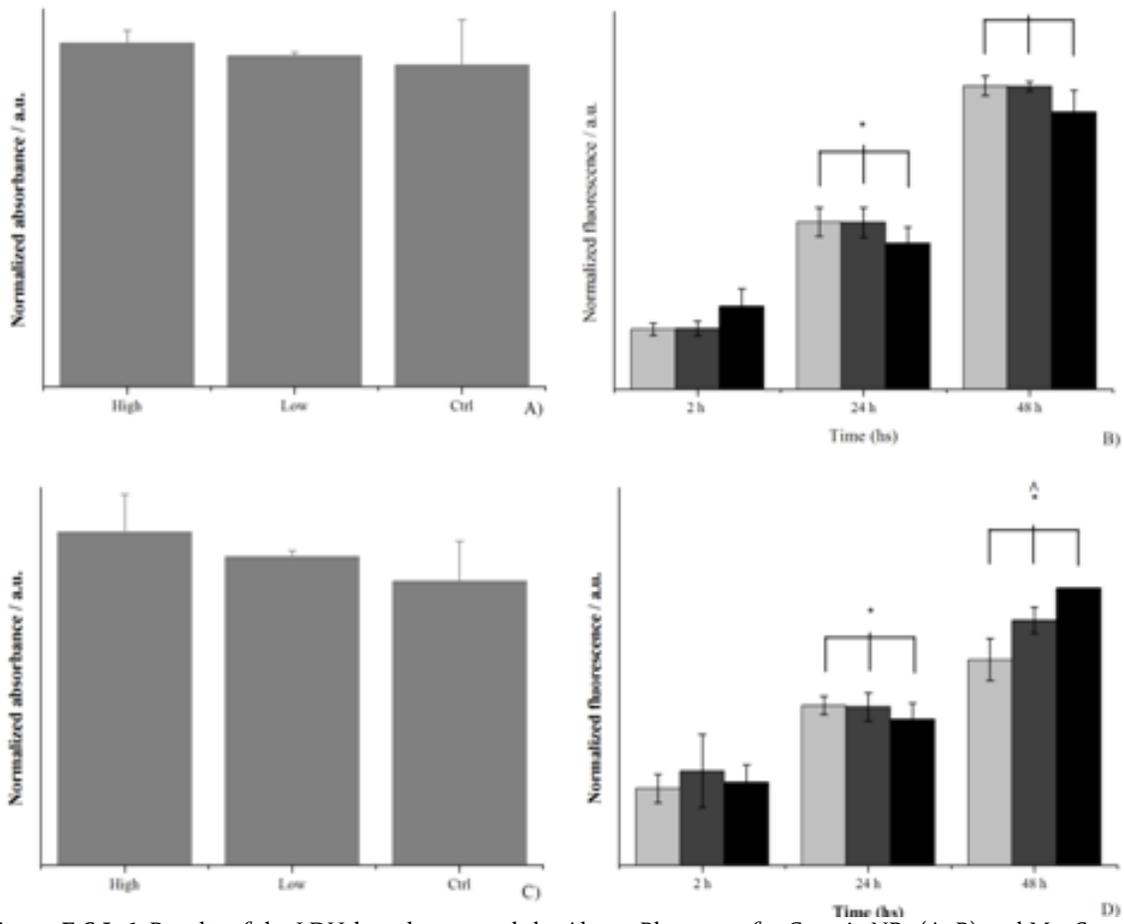
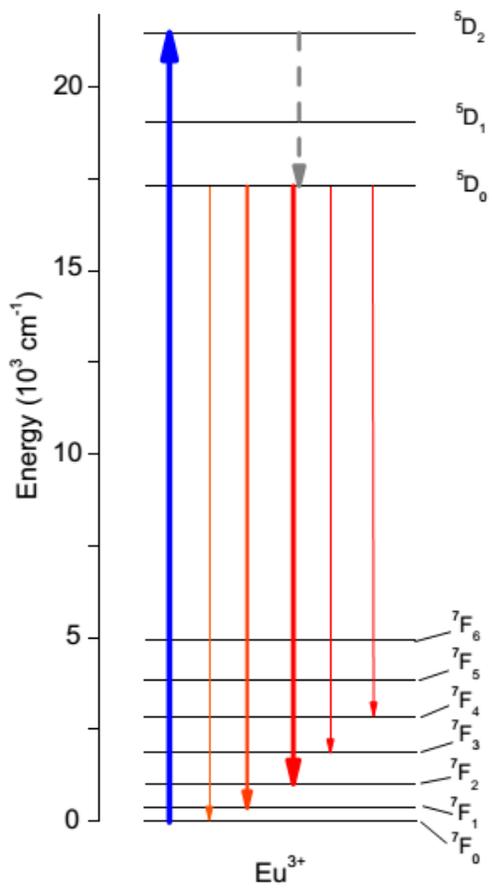
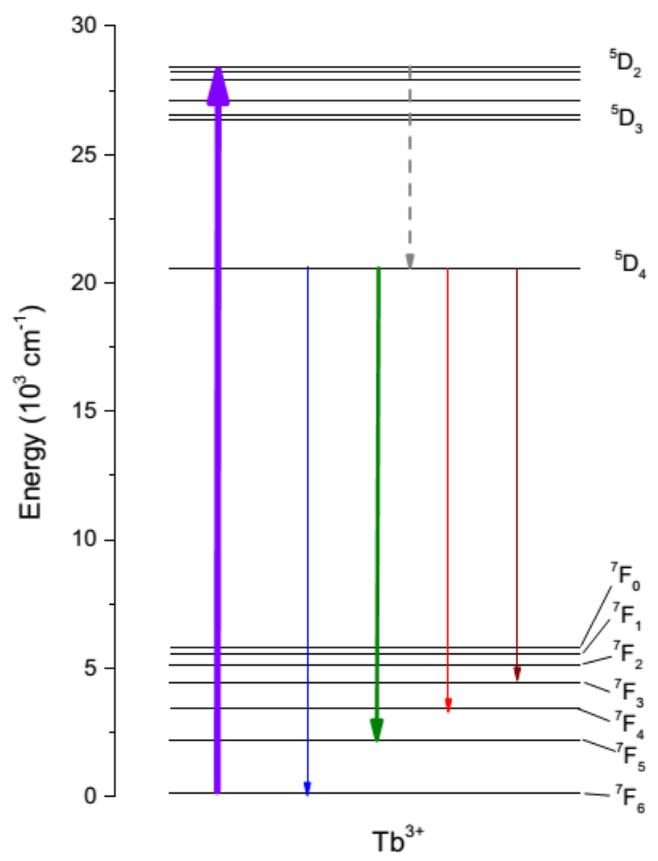


Figure E.S.I. 6. Results of the LDH-based assay and the AlamarBlue assay for Ca_{mix} NPs (A, B) and Mg_{Sm} mix (C, D)



a)



b)

Figure E.S.I. 7 Energy levels diagrams for a) Eu^{3+} and b) Tb^{3+}