

Figure S1. FT-IR spectrum of (Z)-2-((1-methyl-1-dodecylpyrrolidin-1-ium-2-ylidene)amino)ethan-1-ol bromide.

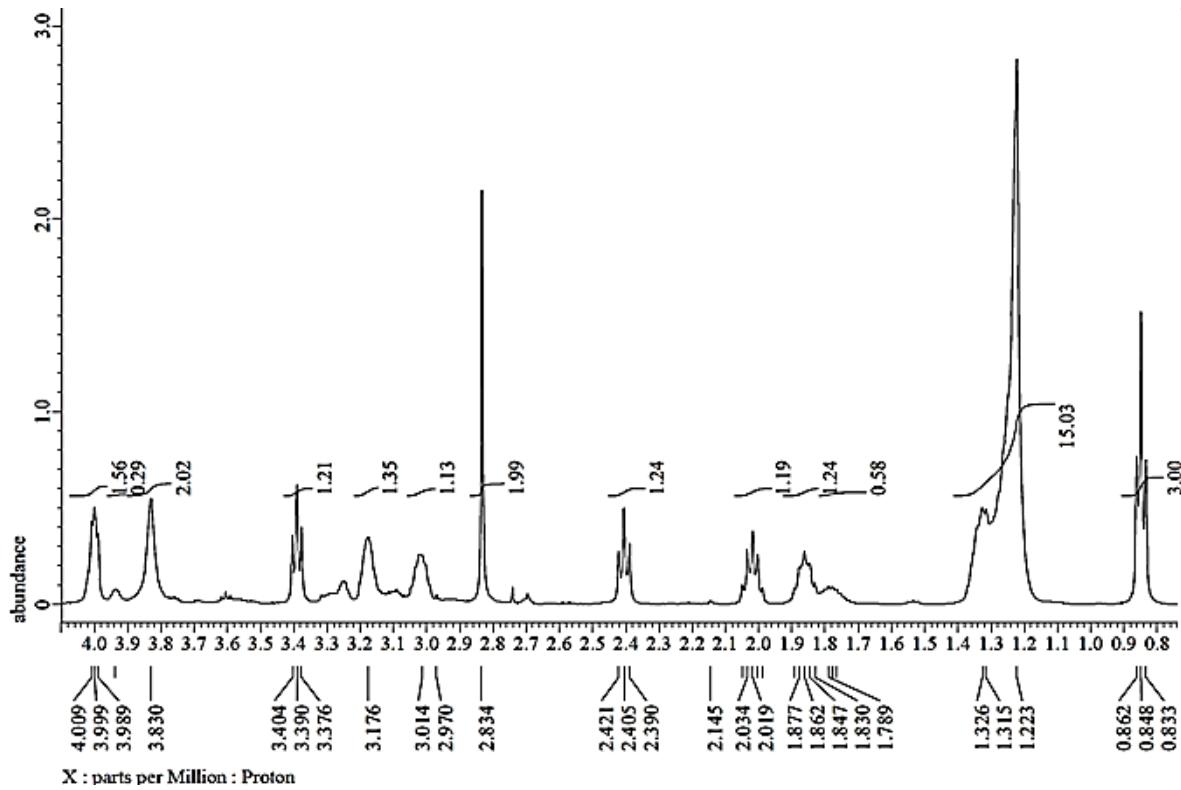


Figure S2. ^1H NMR spectrum of (Z)-2-((1-methyl-1-dodecylpyrrolidin-1-ium-2-ylidene)amino) ethan-1-ol bromide.

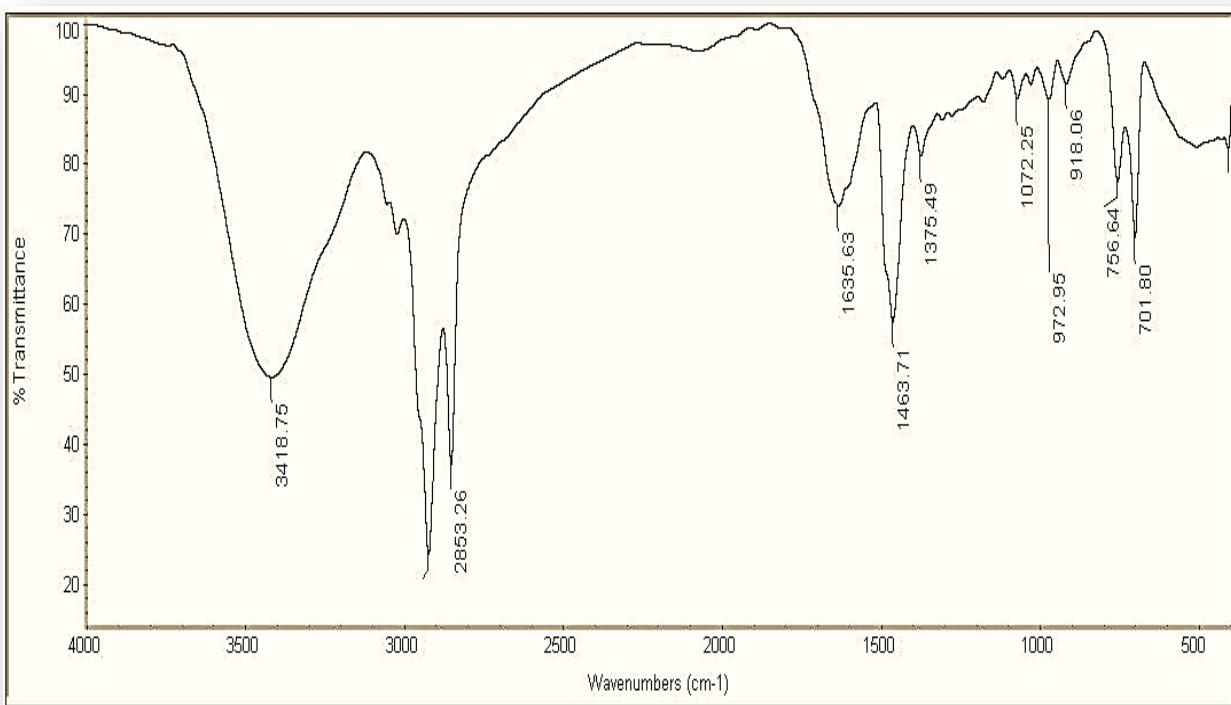


Figure S3. FT-IR spectrum of the Zinc nanoparticles capped by the CS; (Z)-2-((1-methyl-1-dodecylpyrrolidin-1-ium-2-ylidene)amino)ethan-1-ol bromide.