Zinc oxide nanoparticles were prepared using a modified version of the synthesis done by Wood1 *et al.* in brief, zinc acetate dihydrate (99.0%, Sigma-Aldrich) was dissolved in absolute ethanol (Pharmco-Aaper, anhydrous) at 40°C to make a 45 µM solution. This solution was then heated to 70°C before a total of 3 mL of tetramethylammonium hydroxide (TMAH, 25 wt % in methanol, Sigma-Aldrich, neat) solution was added in 6, 500 µL aliquots, injected every 30 minutes. Aliquots of reaction solution were taken every 30 minutes, just before every injection of TMAH (except the first), and a final one after 8 hours of reaction time.