

Supporting Information

**Several Shapes of Single Crystalline Gold
Nanomaterials Prepared in the Surfactant Mixture
of CTAB and Pluronics**

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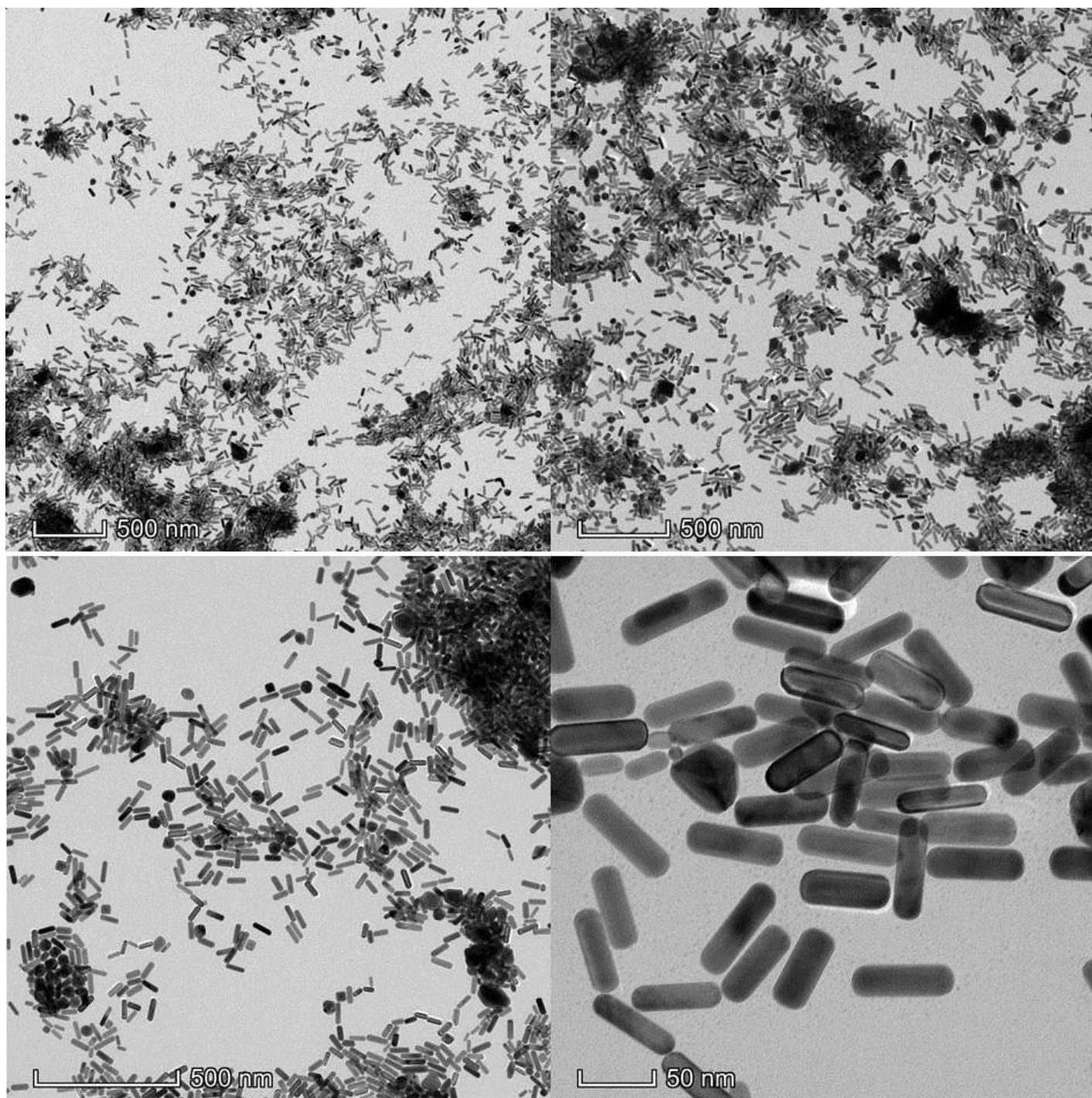


Figure S1. TEM images of gold nanorods prepared with Pluronic L-31 (17.9%, Au1).

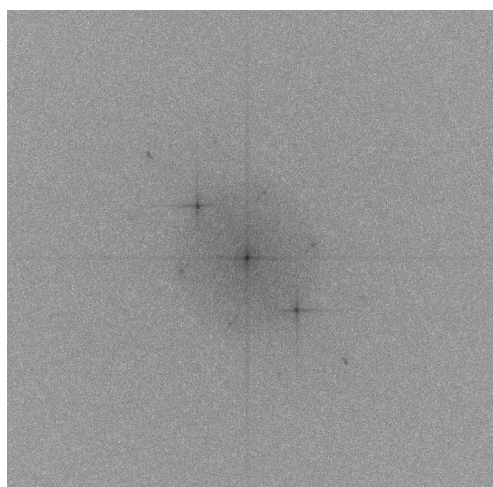
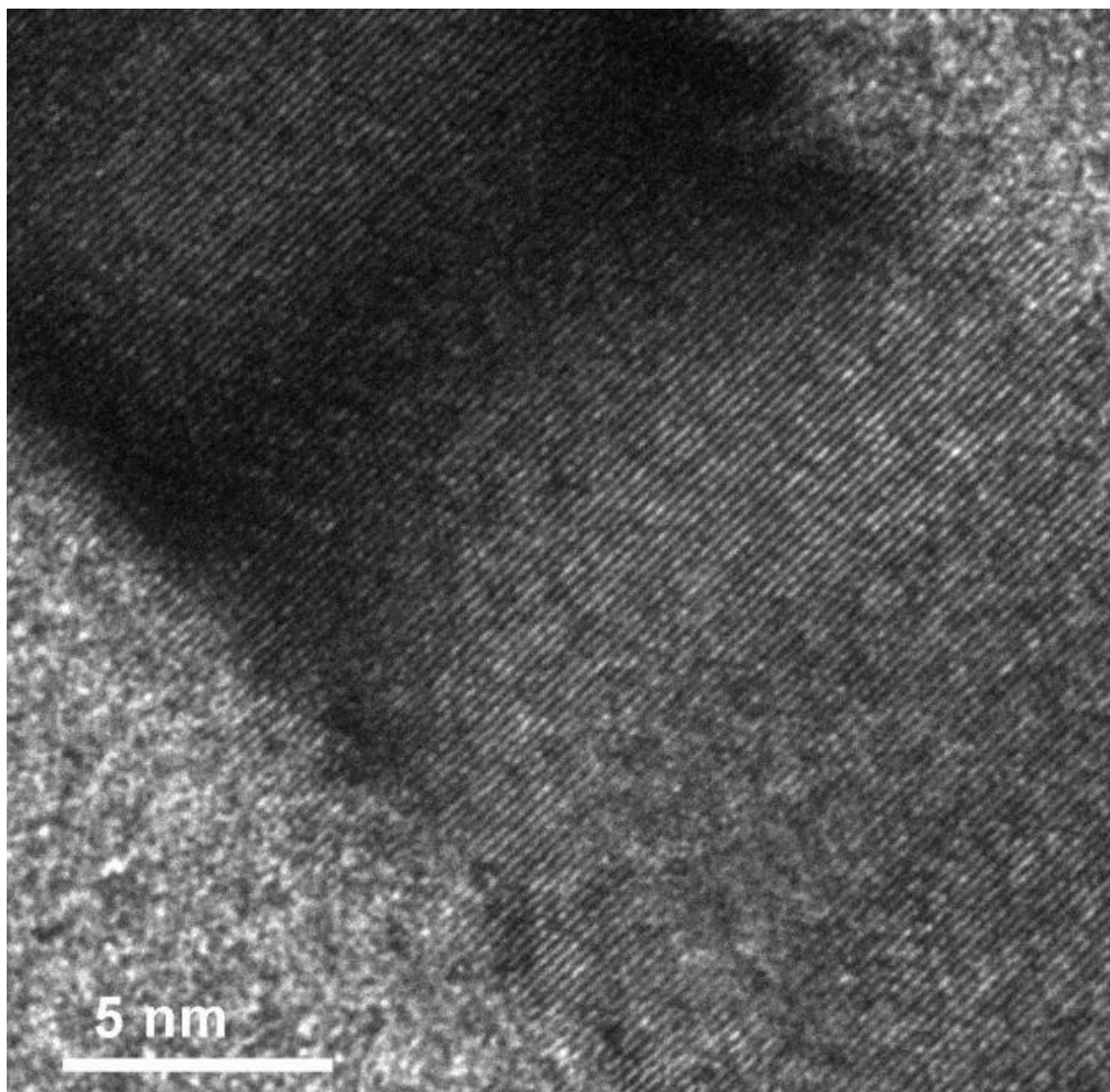


Figure S2. (top) HRTEM image and (bottom) diffraction pattern with $\langle 011 \rangle$ zone axis of gold nanorods prepared with Pluronic L-31 (17.9%, Au1).

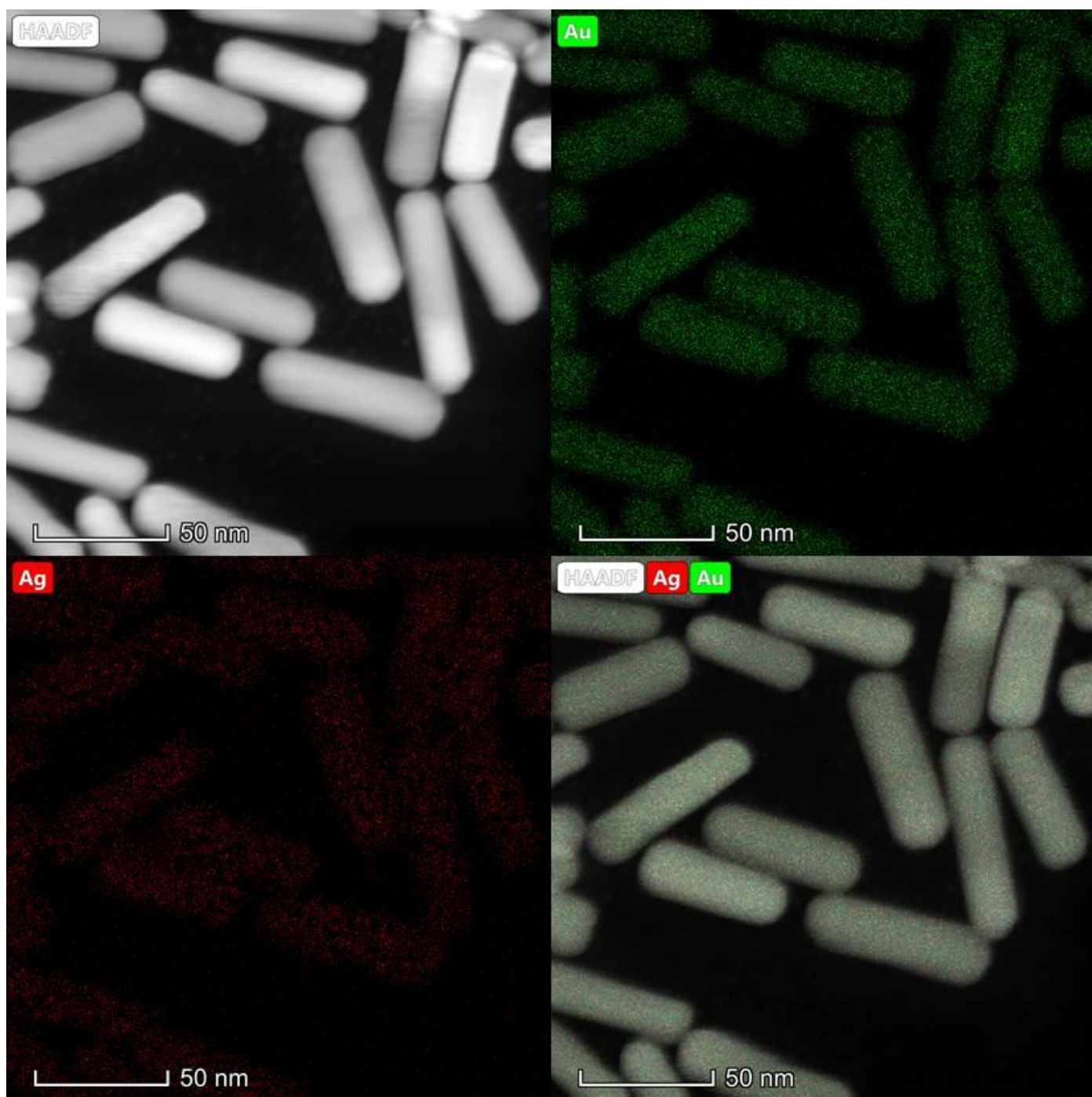


Figure S3. Dark field TEM image and elemental mapping of gold nanorods prepared with Pluronic L-31 (17.9%, Au1).

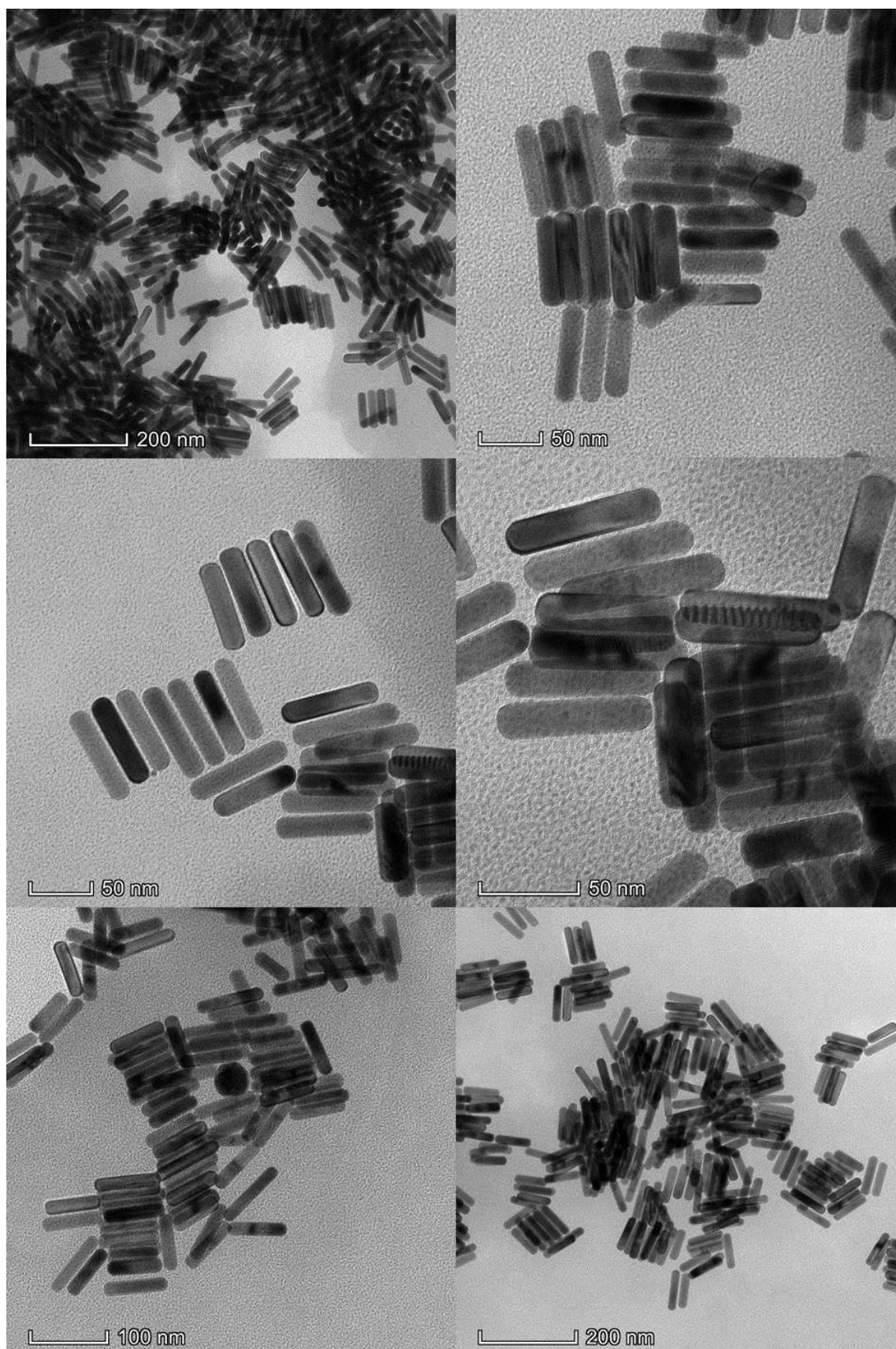


Figure S4. TEM images of gold nanorods prepared with Pluronic L-64 (17.9%, Au₂).

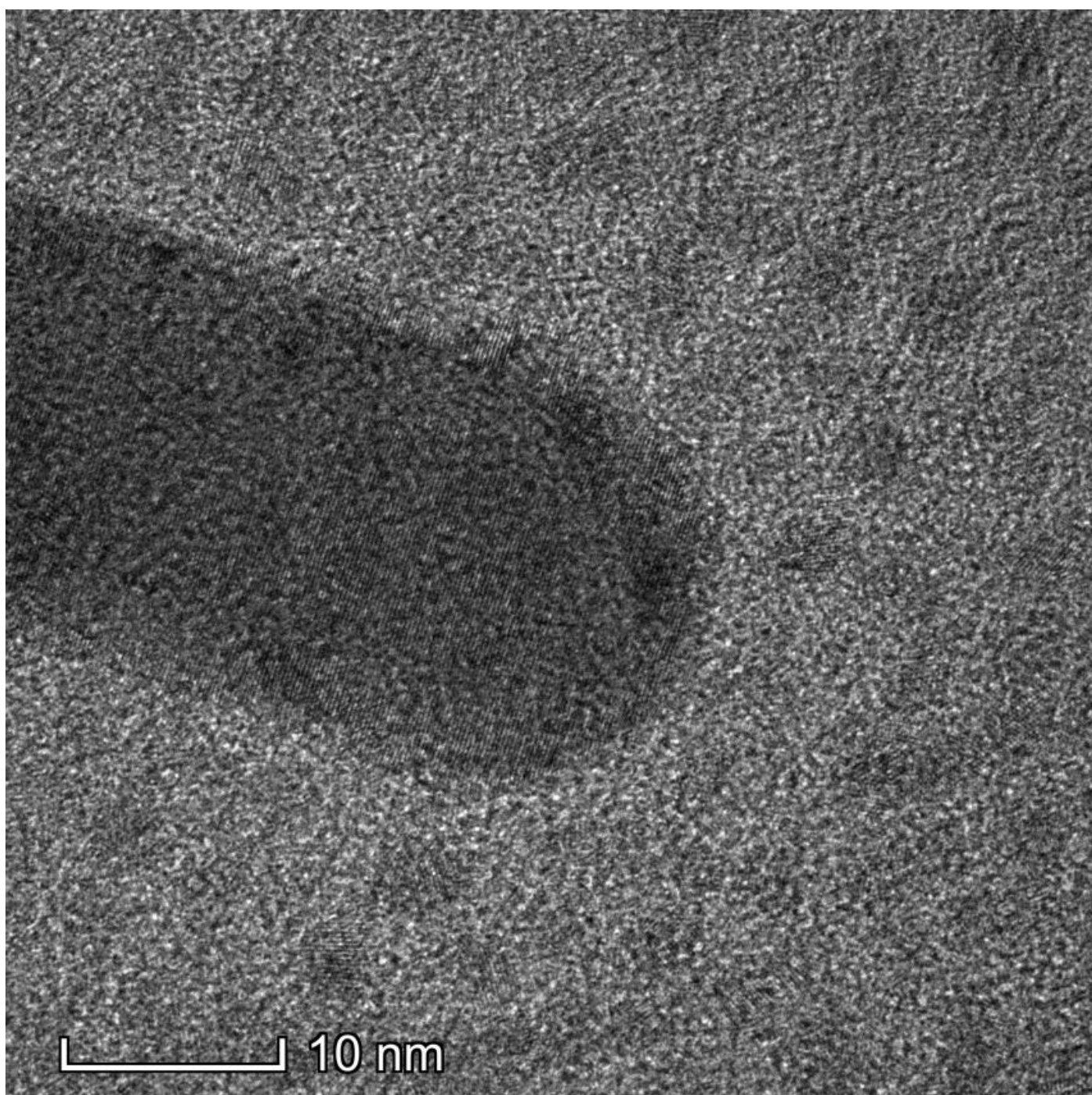


Figure S5. TEM image showing small particles around gold nanorod which were prepared with Pluronic L-64 (17.9%, Au₂).

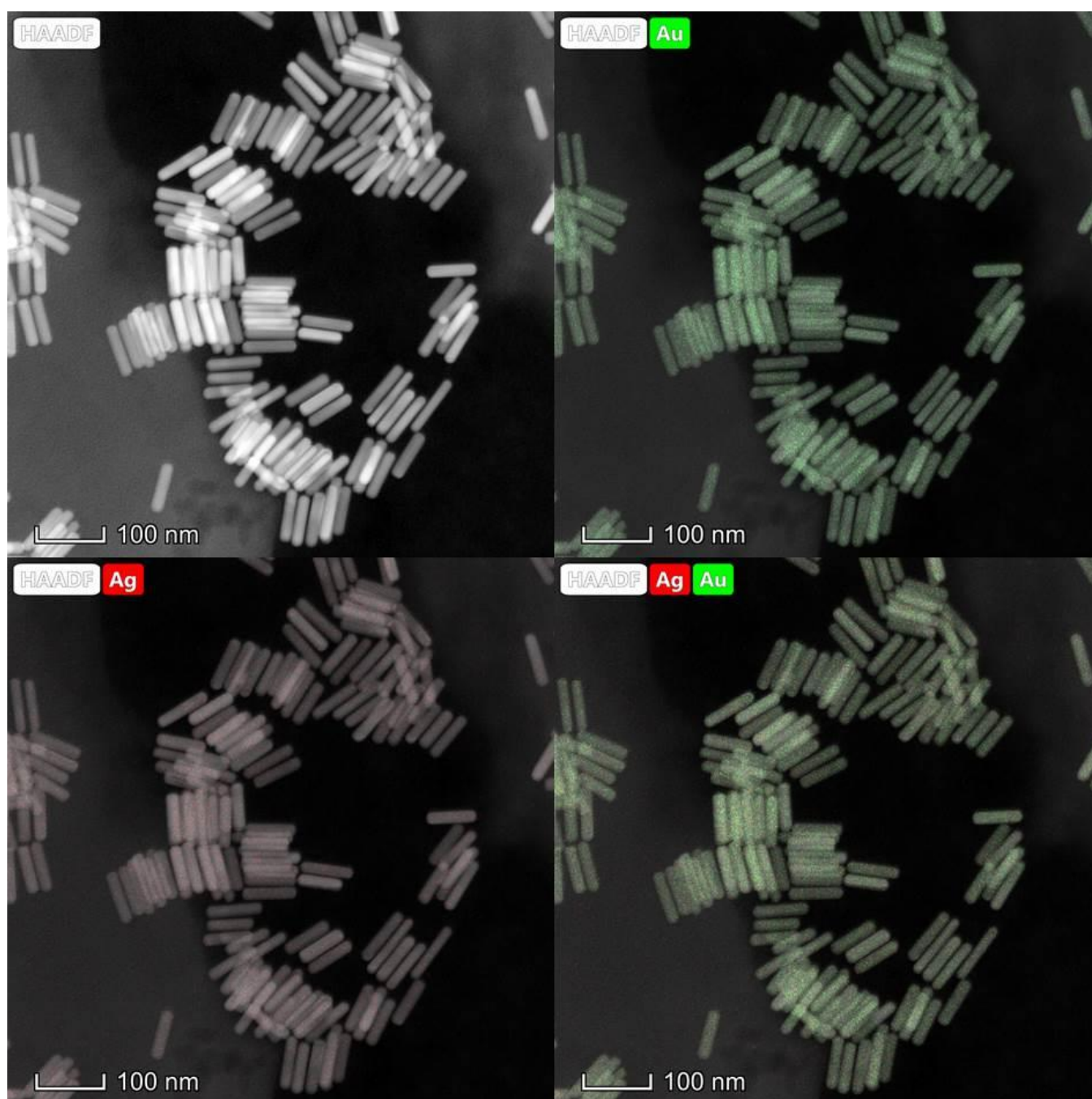


Figure S6. Dark field TEM image and elemental mapping of gold nanorods prepared with Pluronic L-64 (17.9%, Au₂).

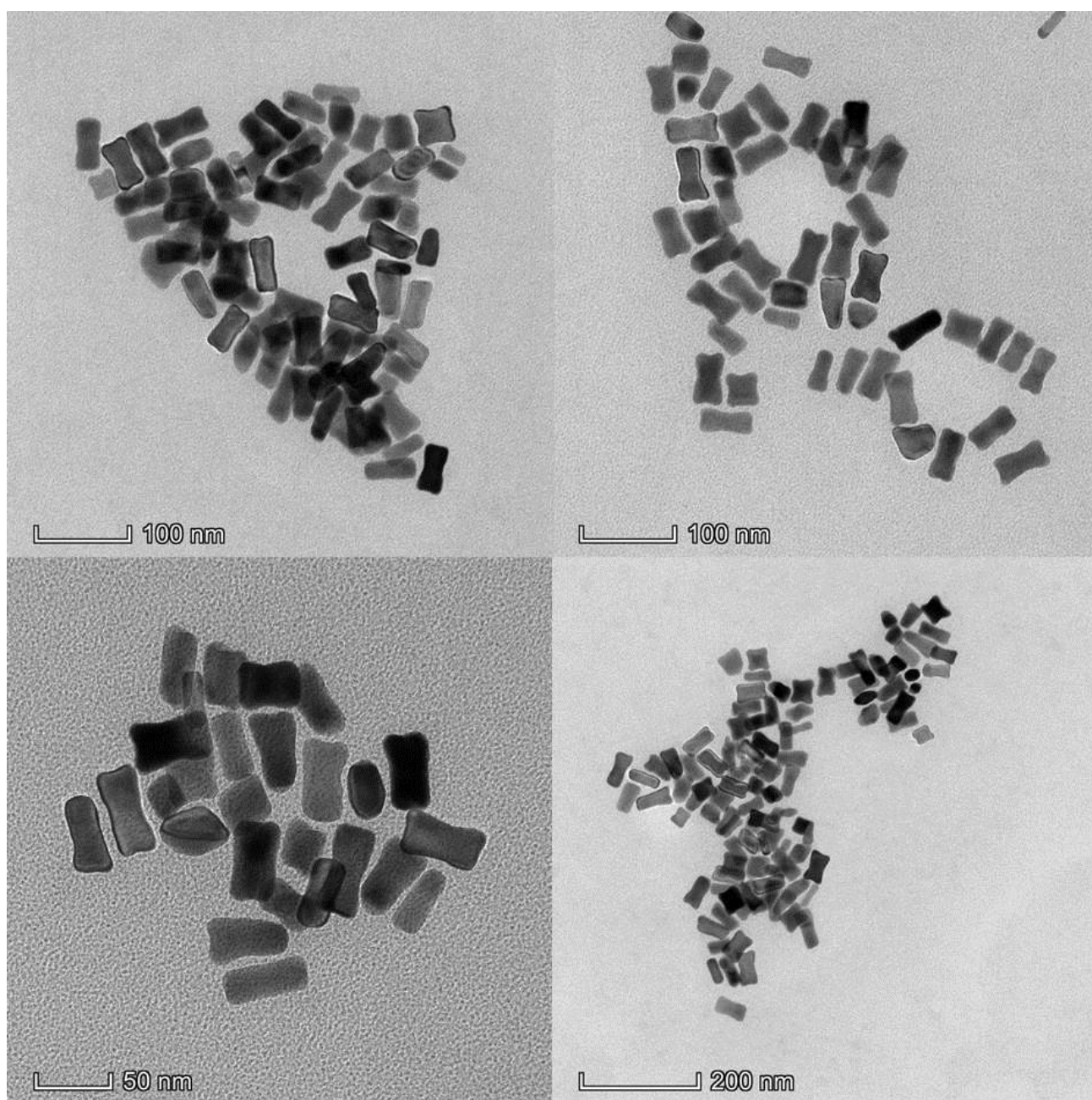


Figure S7. TEM images of gold nanoparticles prepared with Pluronic F-68 (17.9%, Au₃).

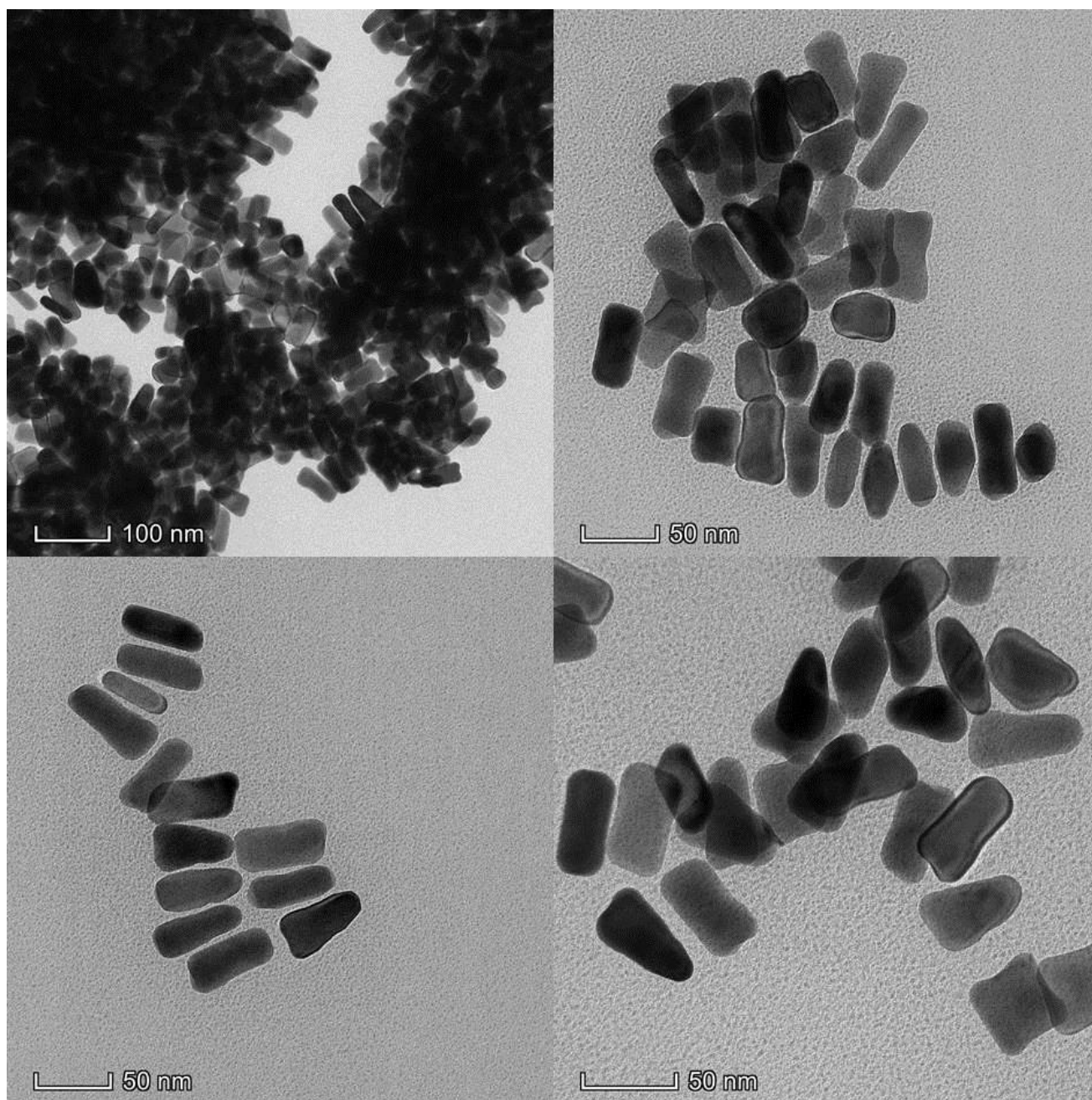


Figure S8. TEM images of gold nanoparticles prepared with Pluronic F-108 (17.9%, Au₄).

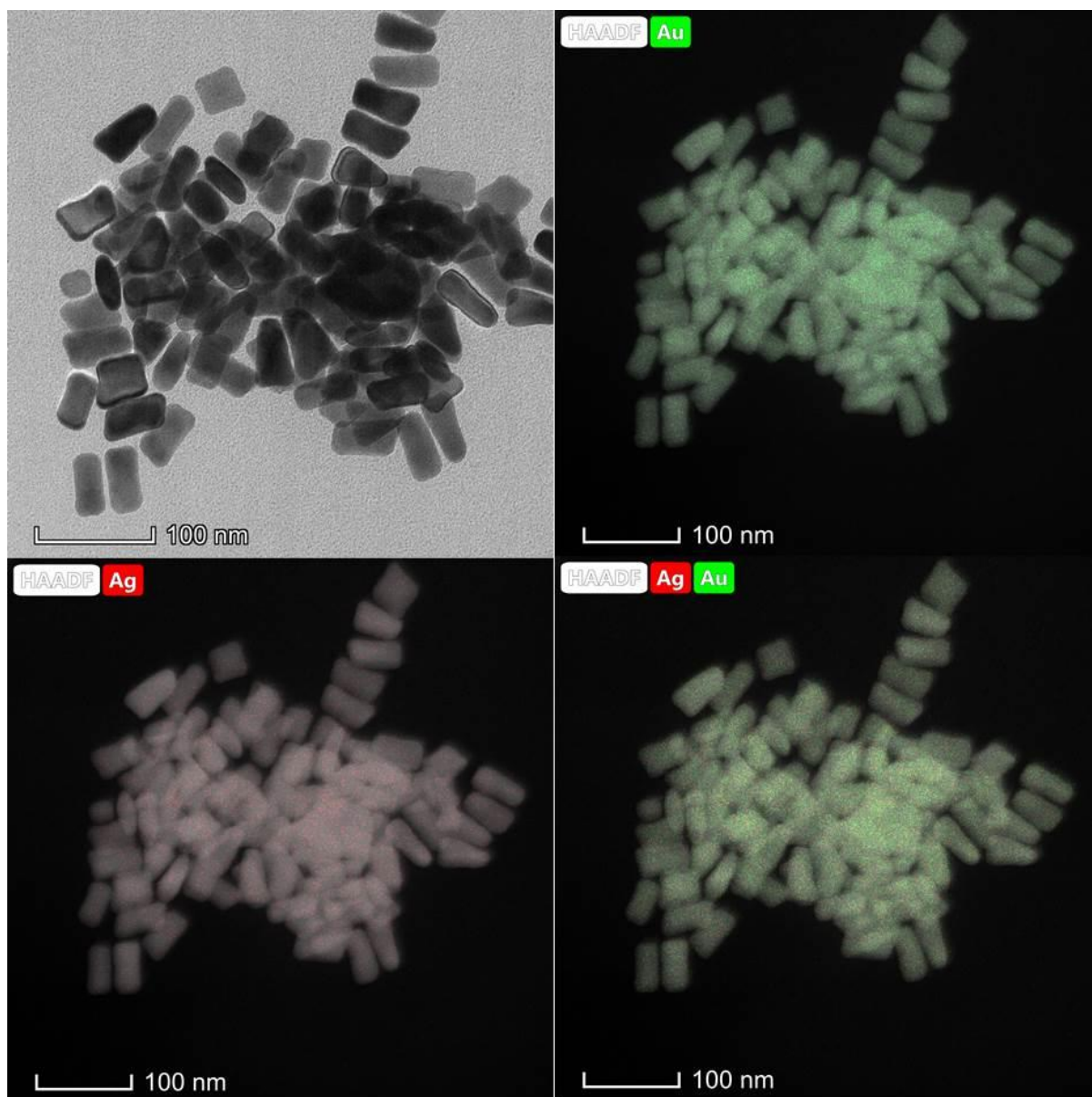


Figure S9. TEM image and elemental mapping of gold nanoparticles prepared with Pluronic F-108 (17.9%, Au4).

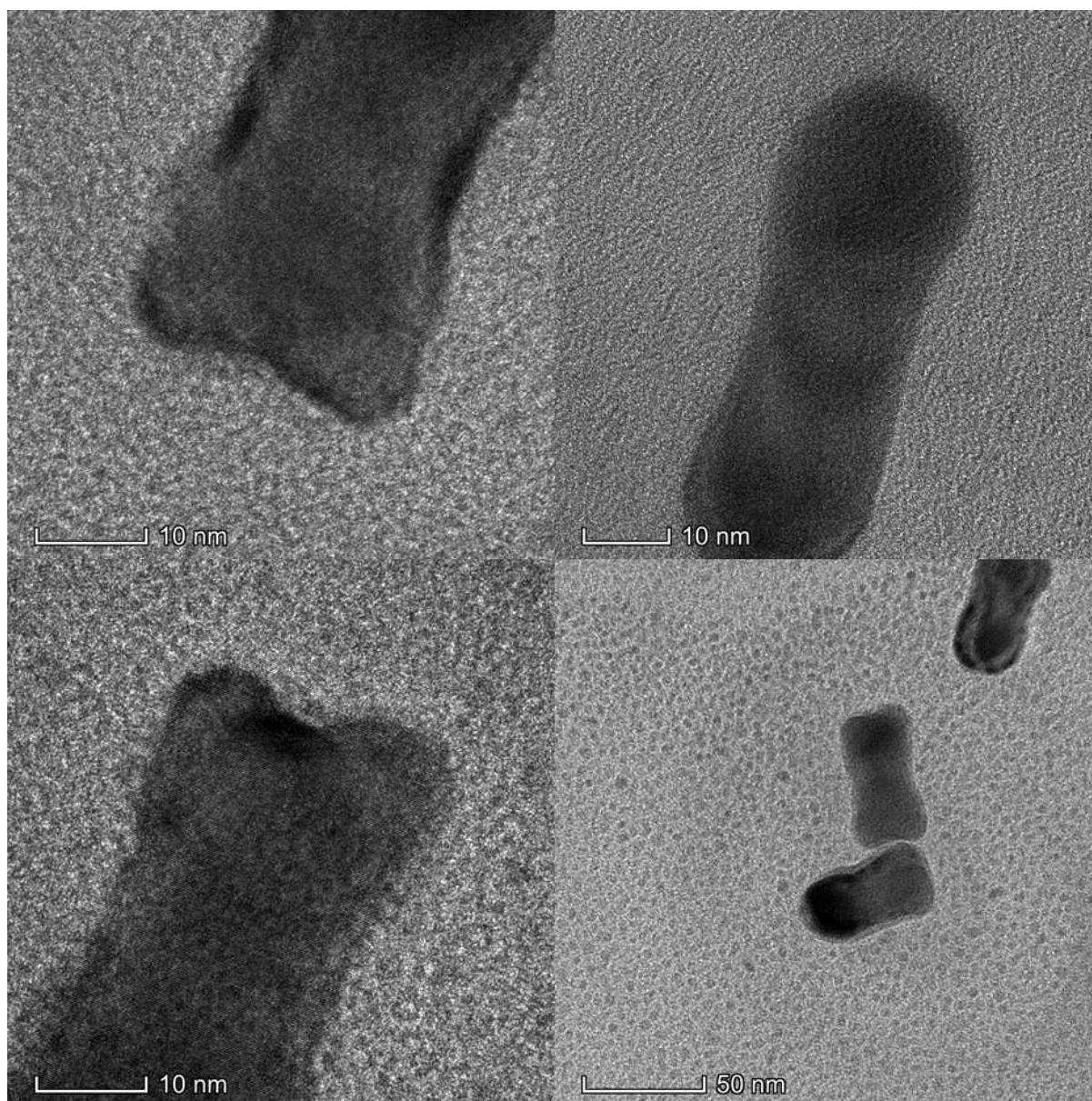


Figure S10. TEM images of gold nanoparticles prepared with Pluronic F-127 (17.9%, Au5).

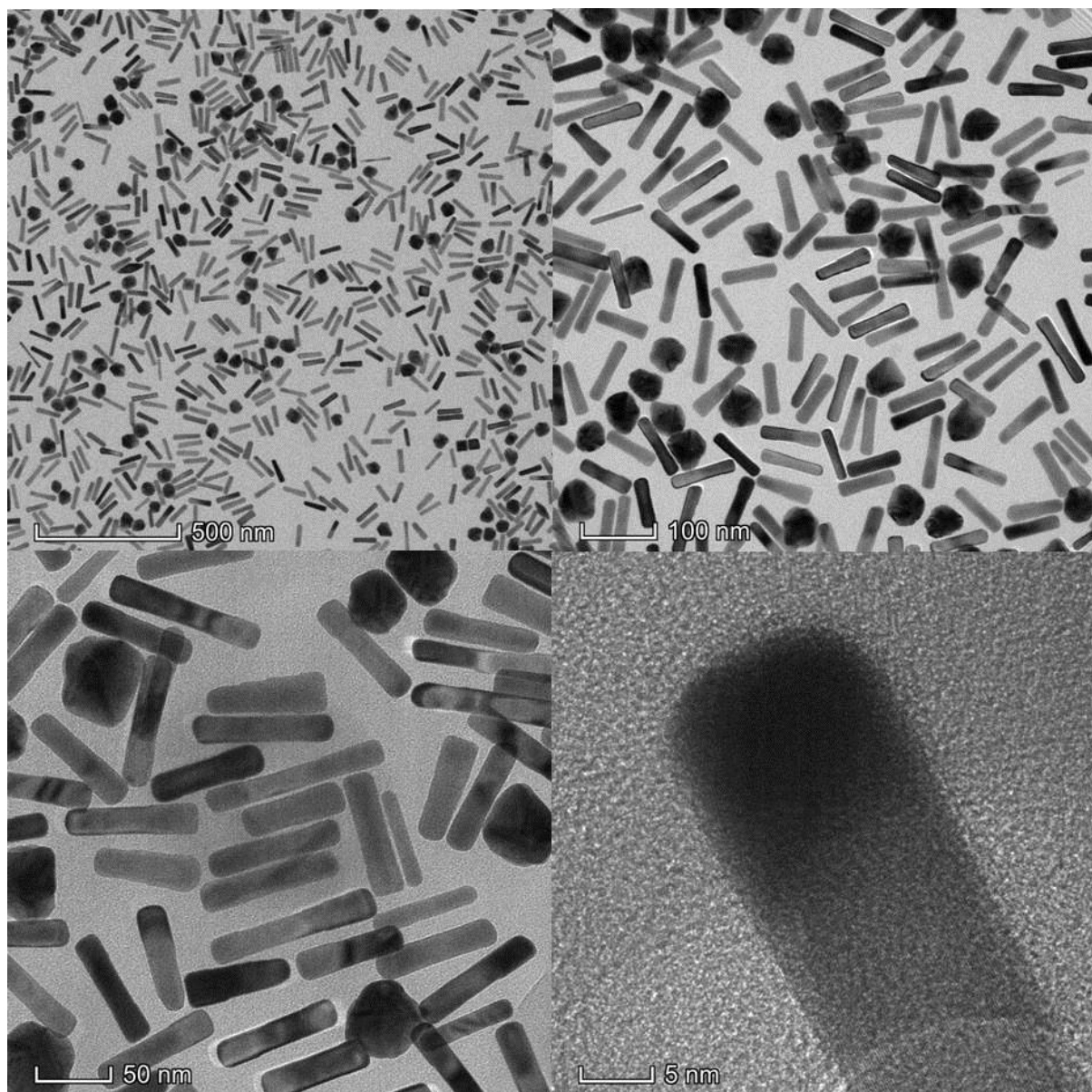


Figure S11. TEM images of gold nanoparticles prepared with Pluronic L-64 (35.9%, Au6).

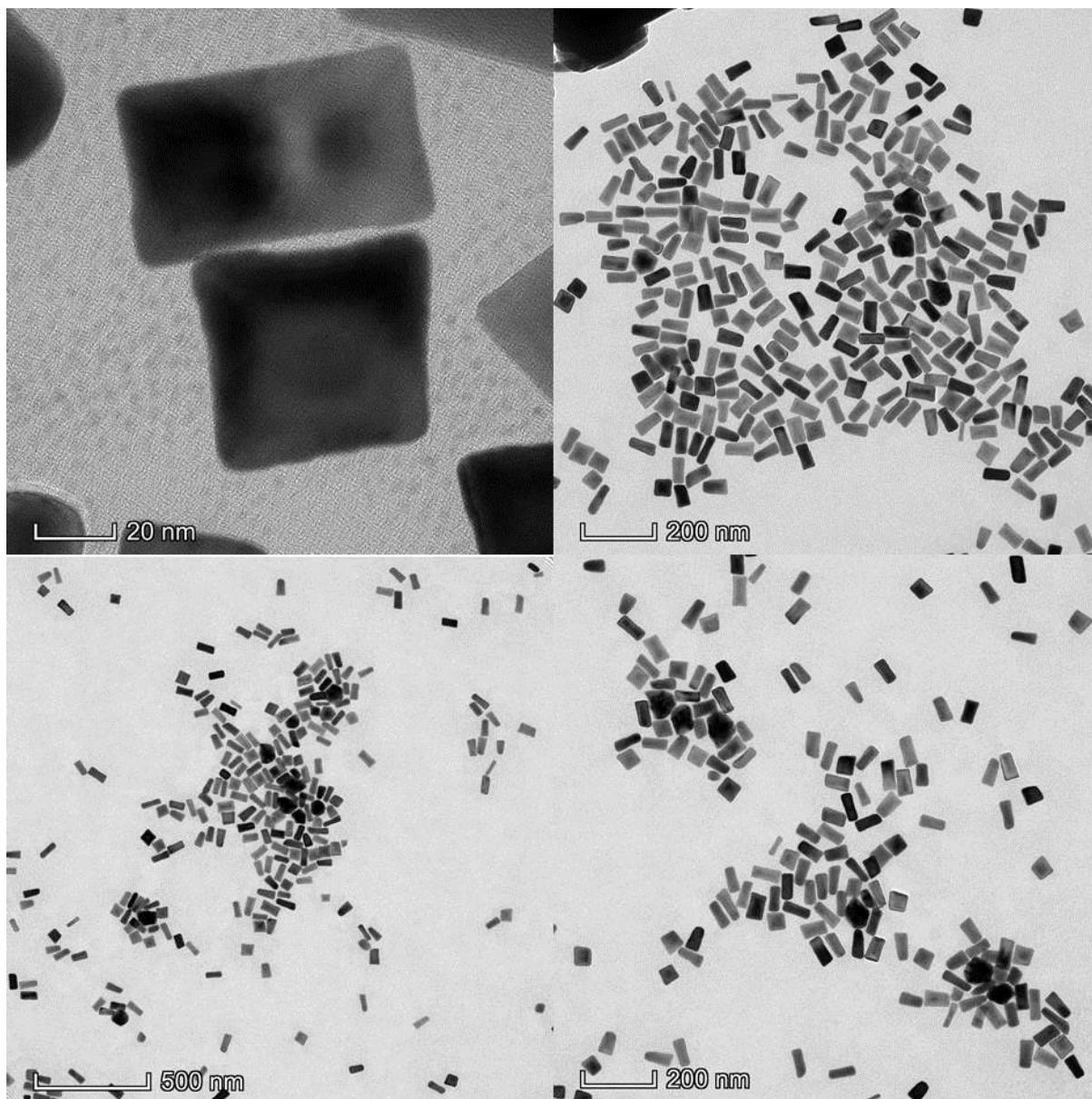


Figure S12. TEM images of gold nanoparticles prepared with Pluronic L-64 (17.9%) and AgNO_3 (100 μL , Au7).

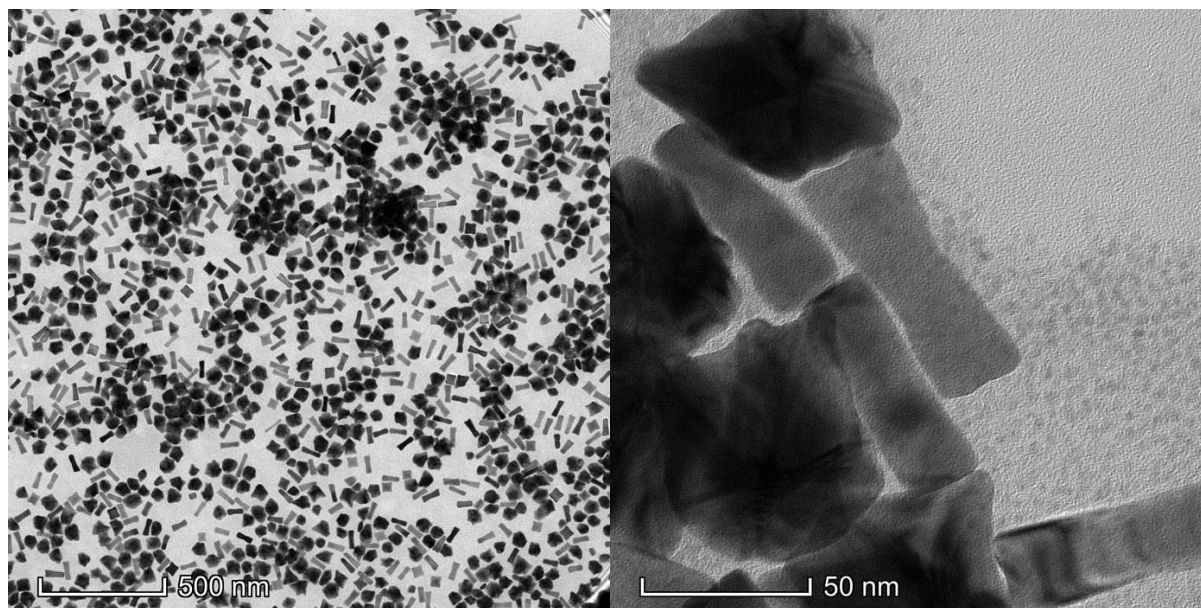


Figure S13. TEM images of gold nanoparticles prepared with Pluronic L-64 (17.9%) and AgNO_3 (300 μL , Au8).

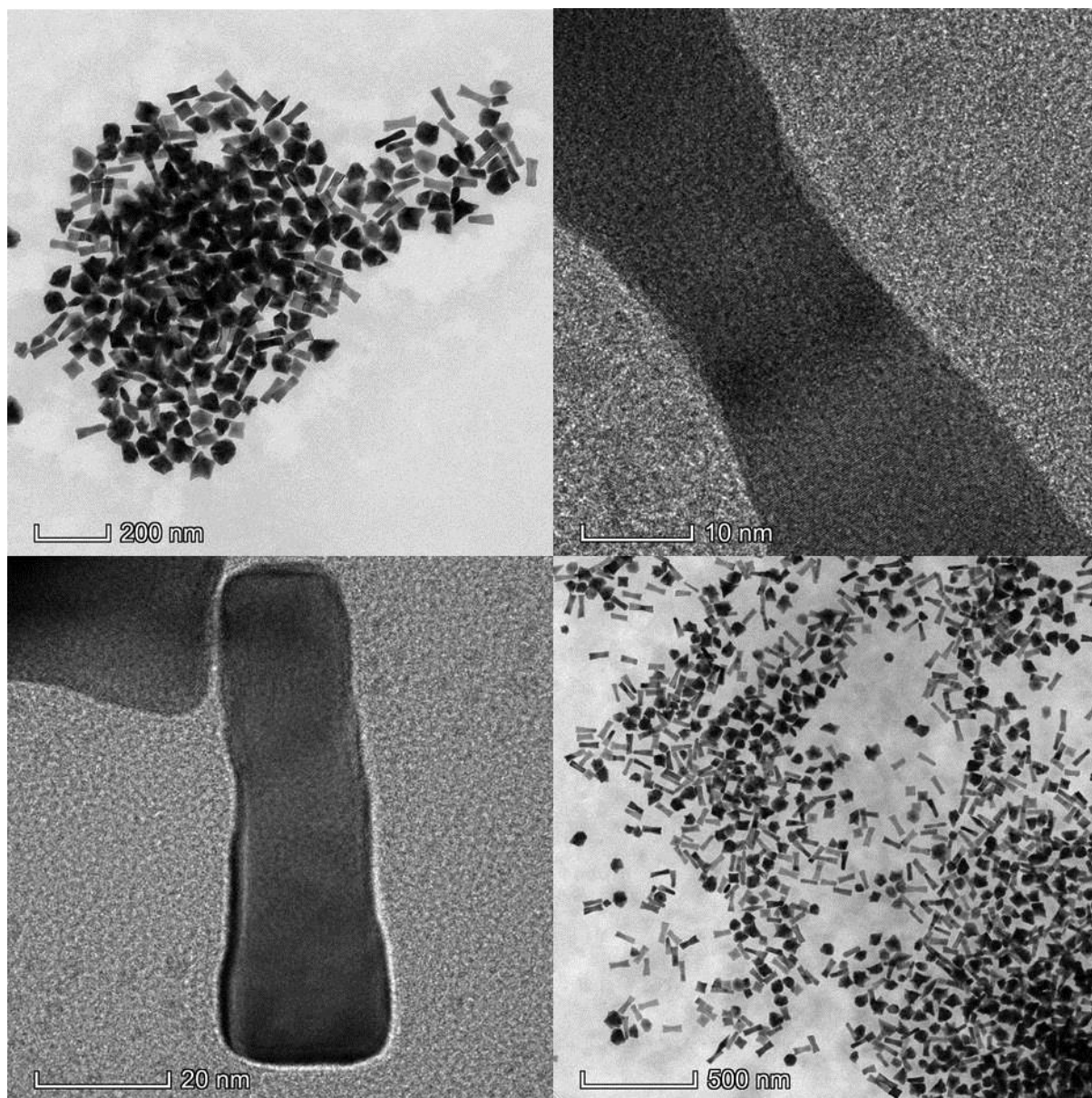


Figure S14. TEM images of gold nanoparticles prepared with Pluronic L-64 (35.9%) and AgNO_3 (300 μL , Au9).

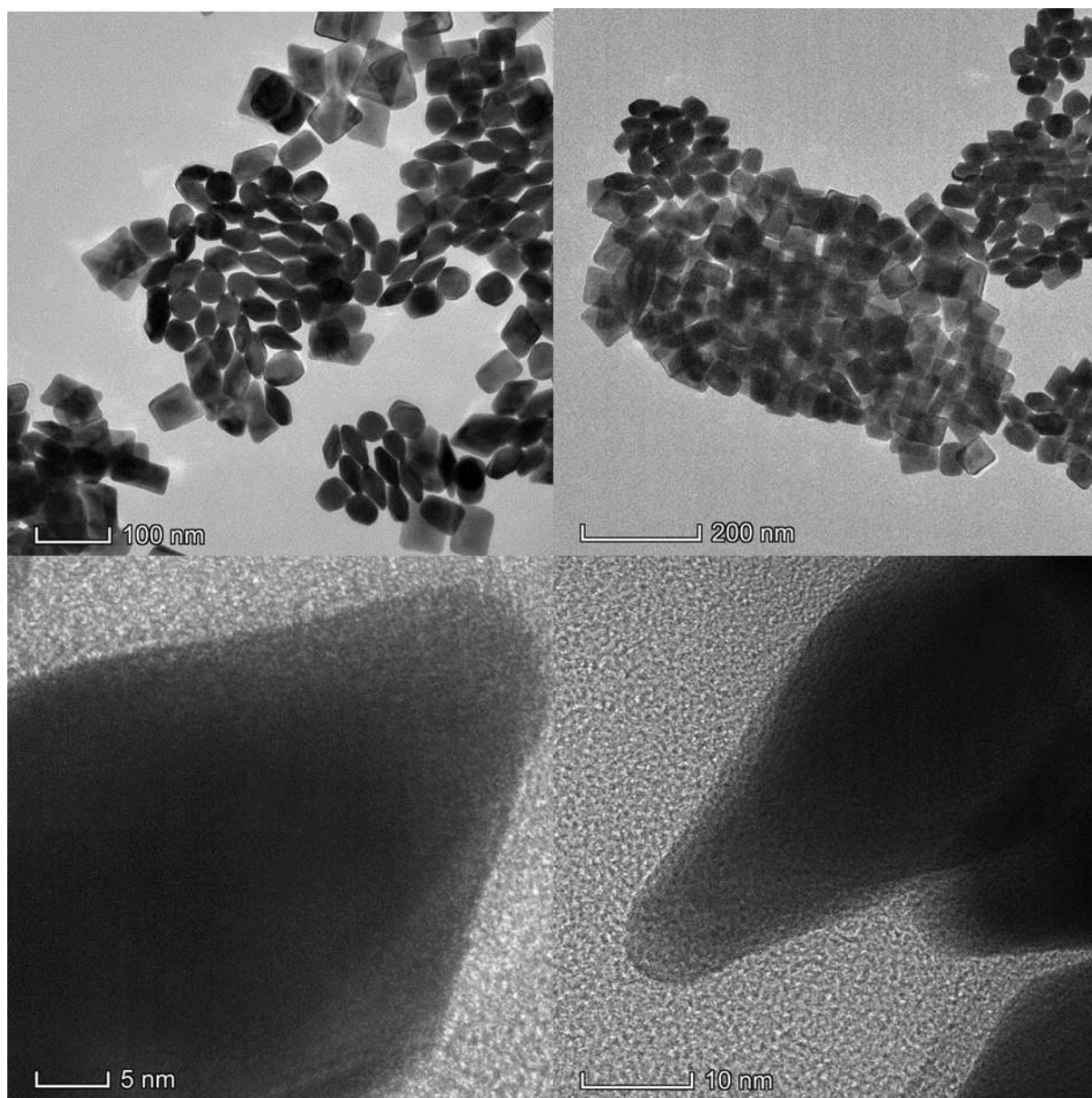


Figure S15. TEM images of gold nanoparticles prepared with Pluronic F-68 (17.9%) and AgNO_3 (100 μL , Au10).

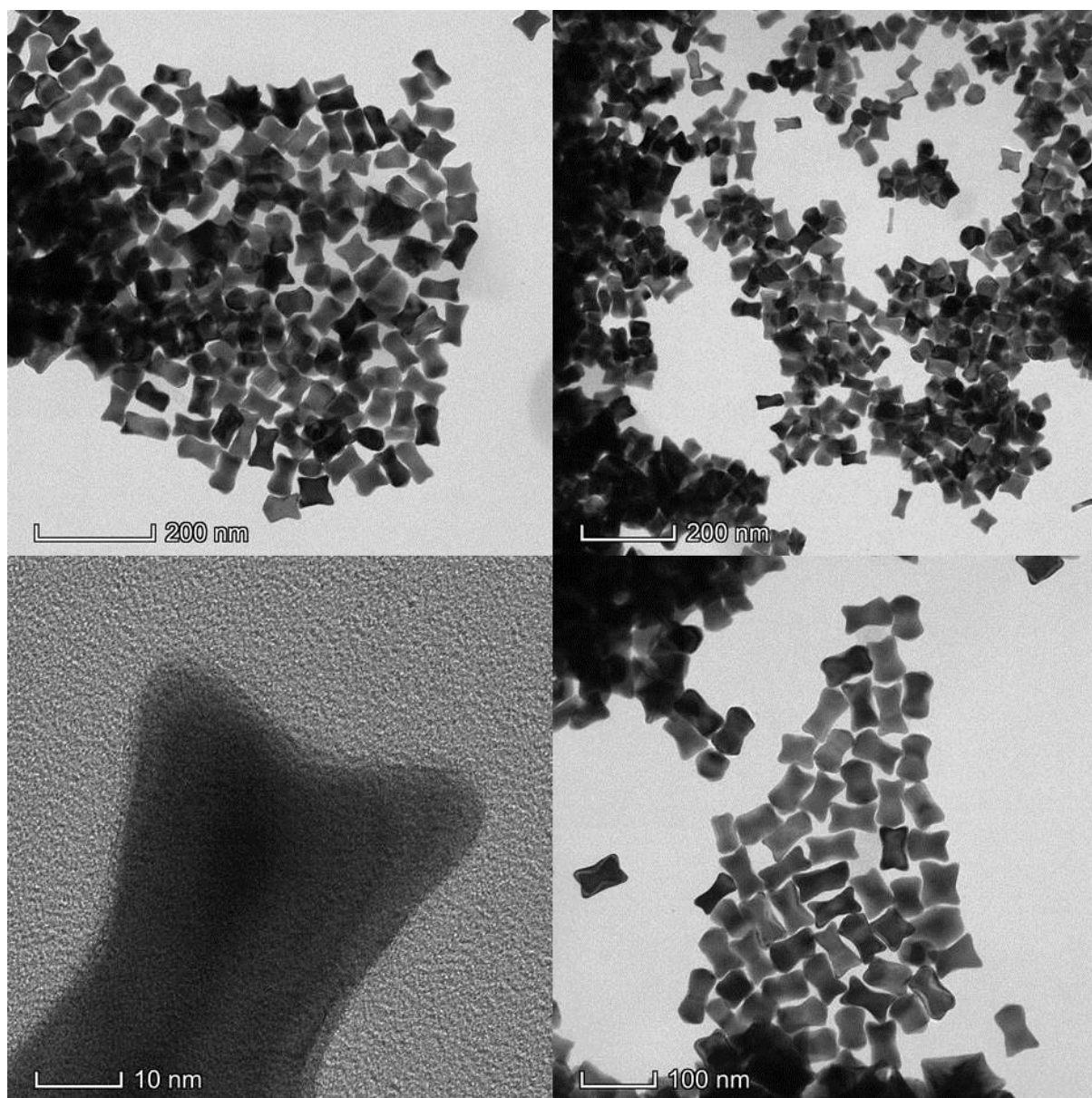


Figure S16. TEM images of gold nanoparticles prepared with Pluronic F-68 (17.9%) and AgNO_3 (300 μL , Au11).

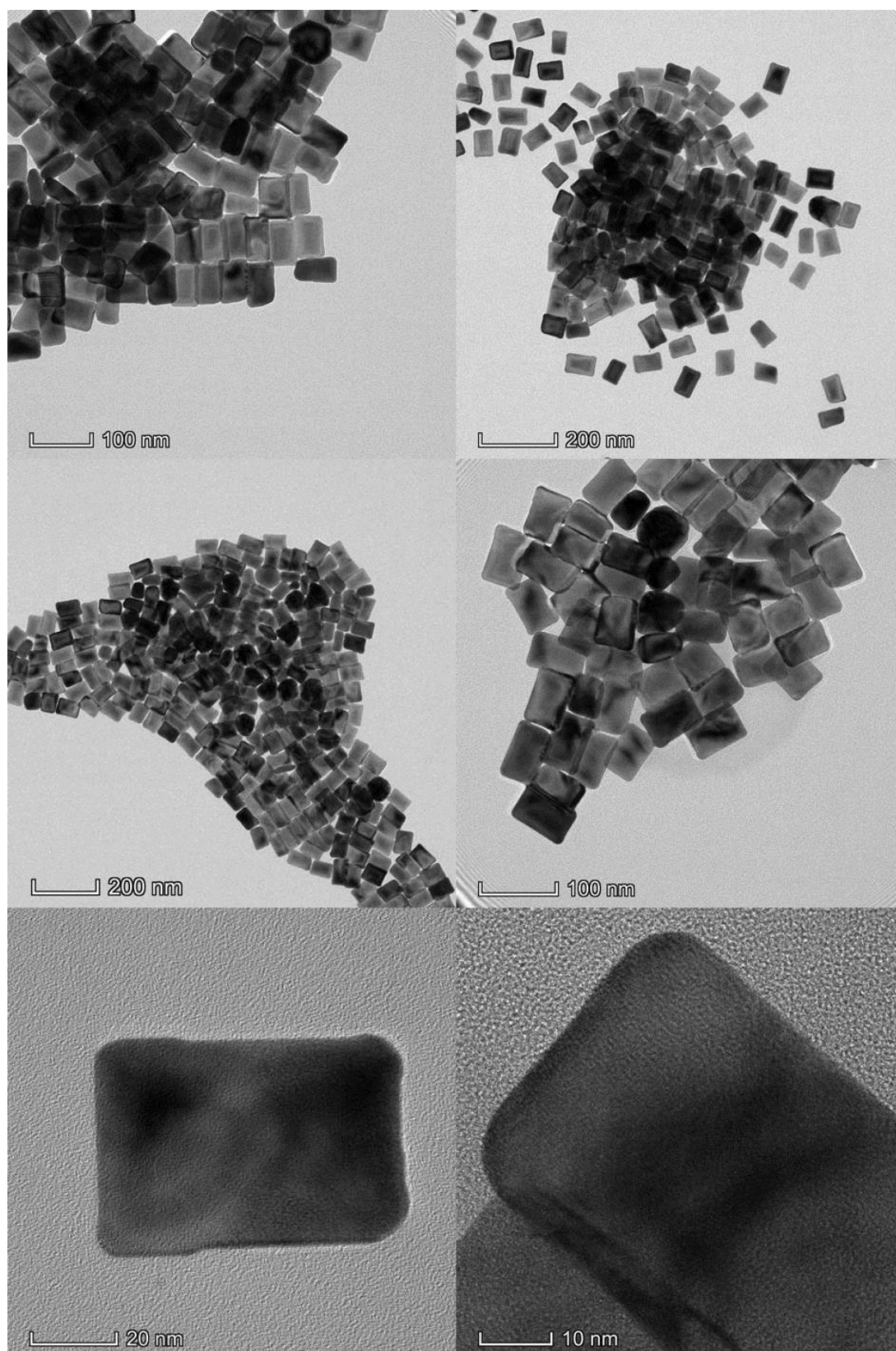


Figure S17. TEM images of gold nanoparticles prepared with Pluronic F-68 (35.9%) and AgNO_3 (100 μL , Au12).

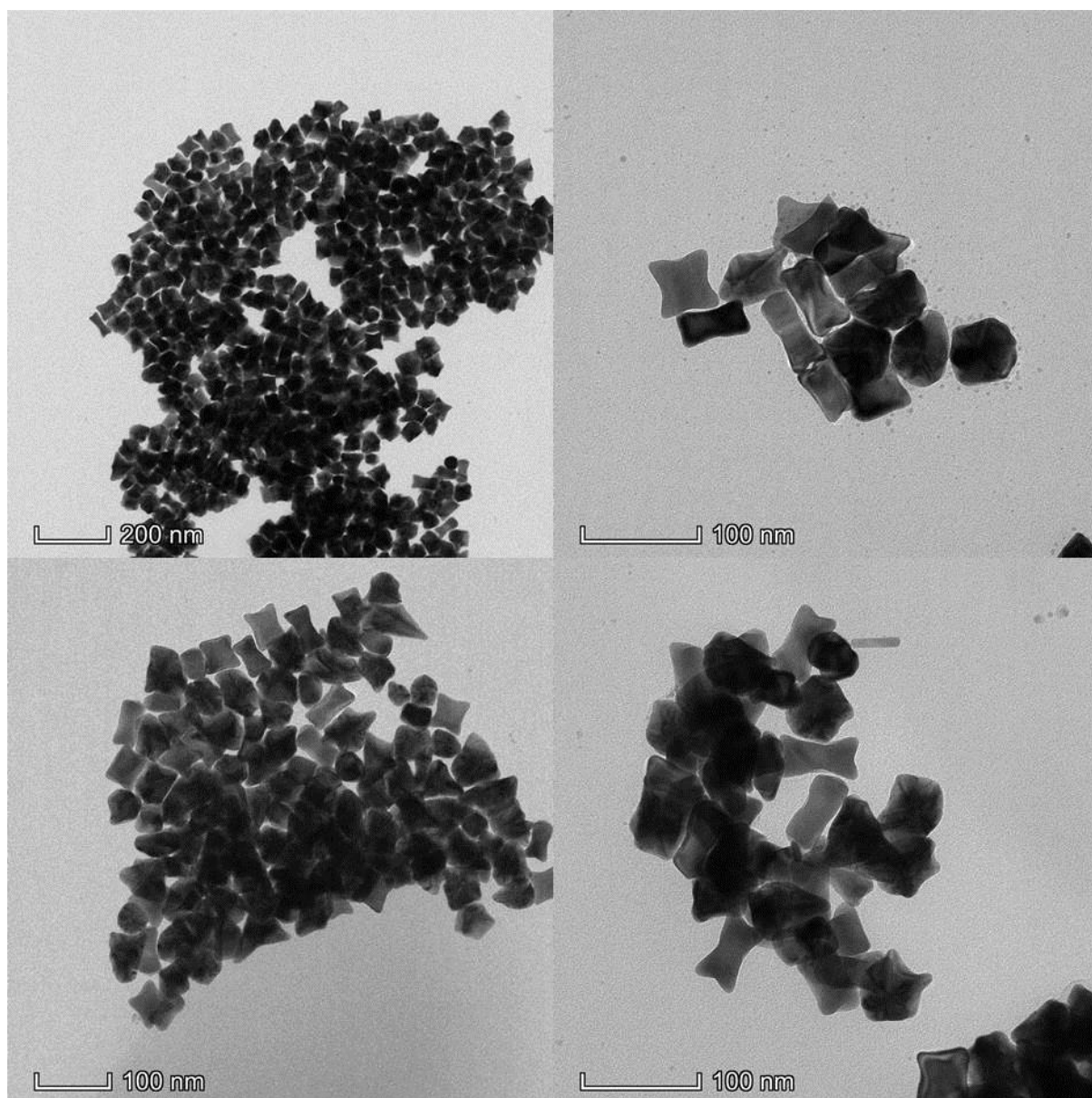


Figure S18. TEM images of gold nanoparticles prepared with Pluronic F-68 (35.9%) and AgNO_3 (300 μL , Au13).