Electronic Supplementary Material (ESI) for Analytical Methods.

Supporting Information

Quantifying Platinum Binding on Protein-Functionalized Magnetic Microparticles using Single Particle-ICP-TOF-MS

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Figures: 3

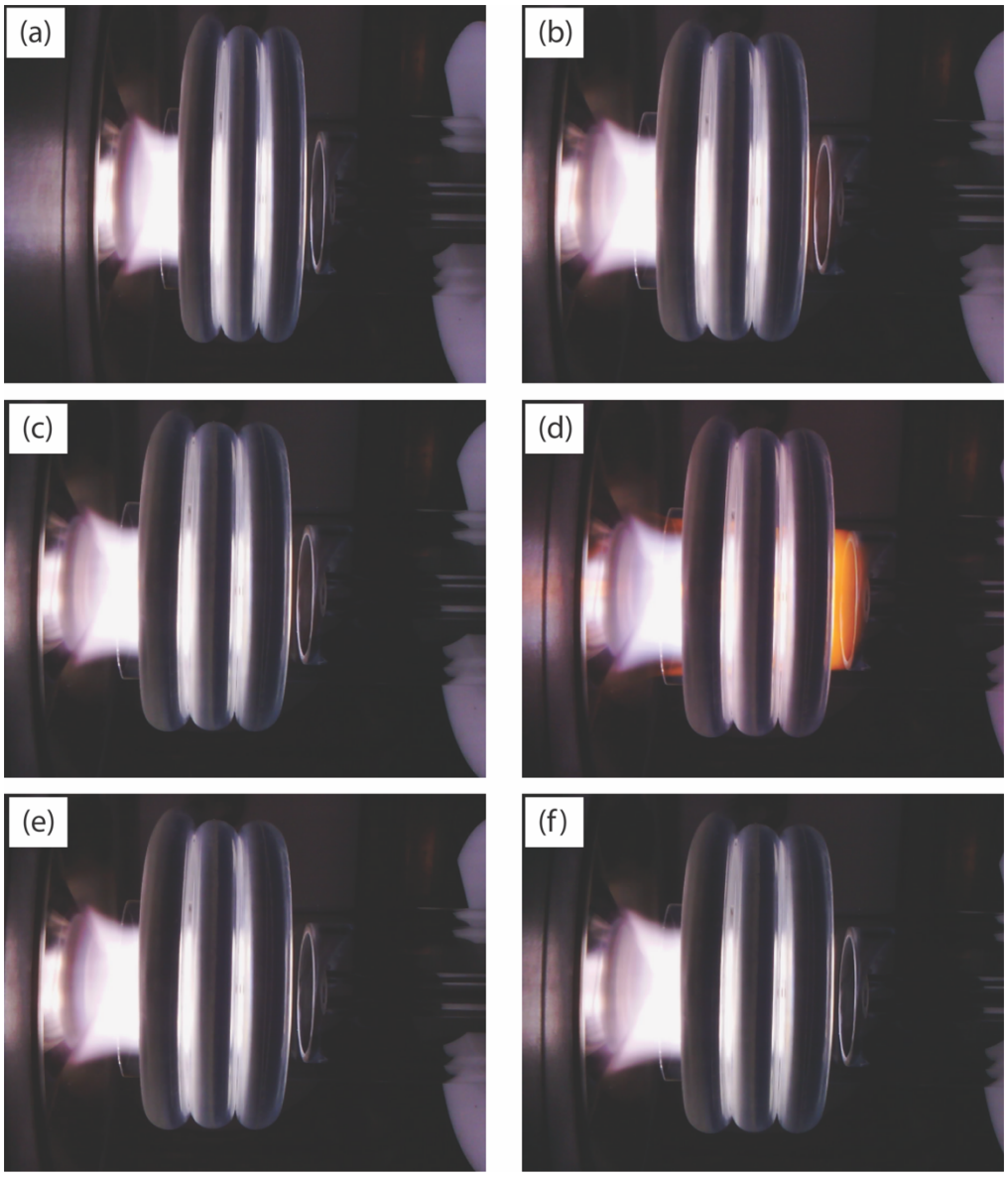

Figure S1. Images of ICP torches as a function matrix: (a) ammonium acetate, (b) MOPS, (c) 0.1M PBS, (d) 1M PBS, (e) HEPES, and (f) HNO_3.

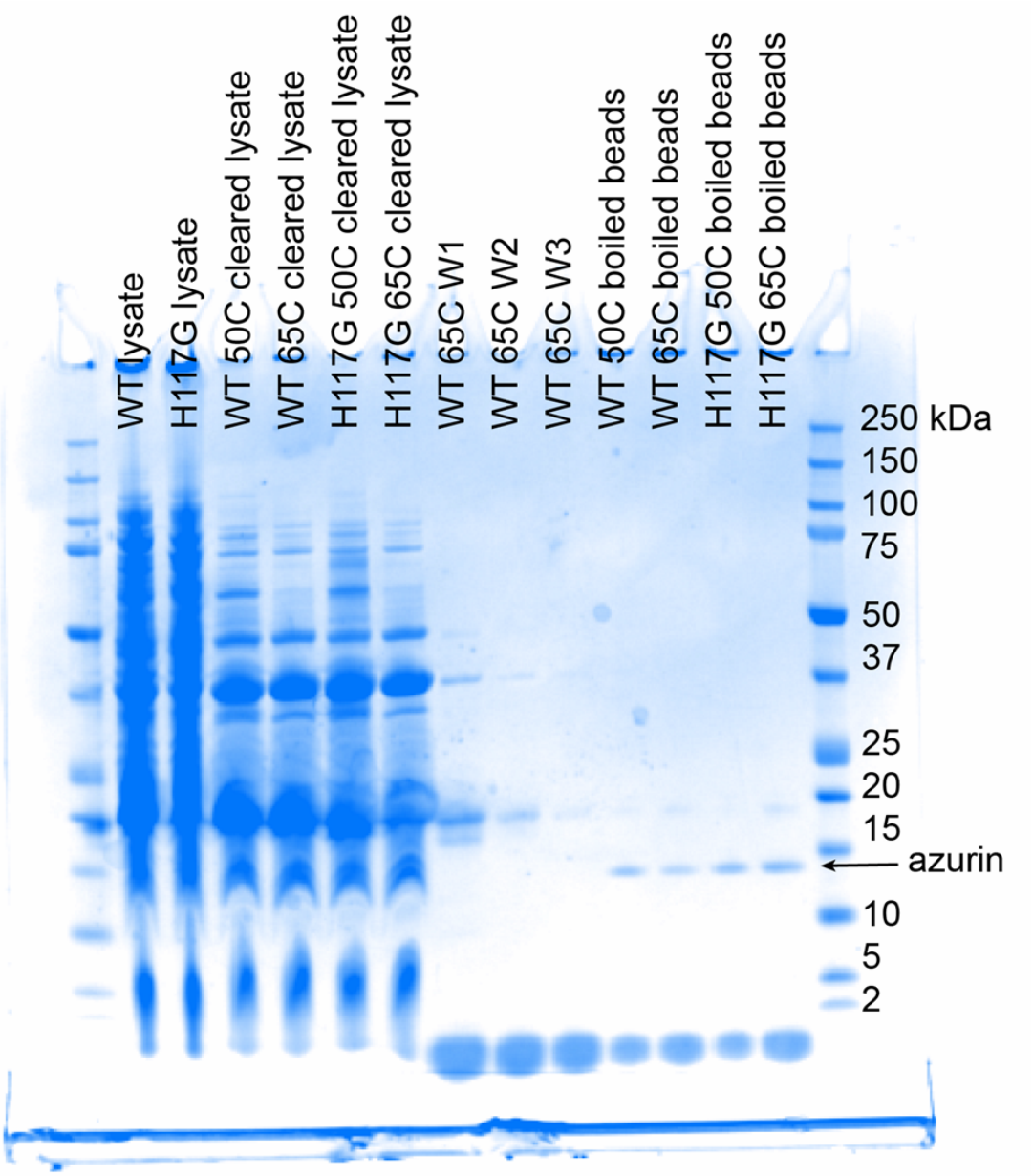

Figure S2. SDS-PAGE analysis of azurin expression and bead loading. Each lane is labeled with contents loaded on the gel and conditions of each sample prior to SDS-PAGE. Azurin proteins were shown to specifically bind to SA-coated beads and were released upon boiling. WT azurin was expressed parallel to H117G to ensure the point mutation did not impact protein expression.

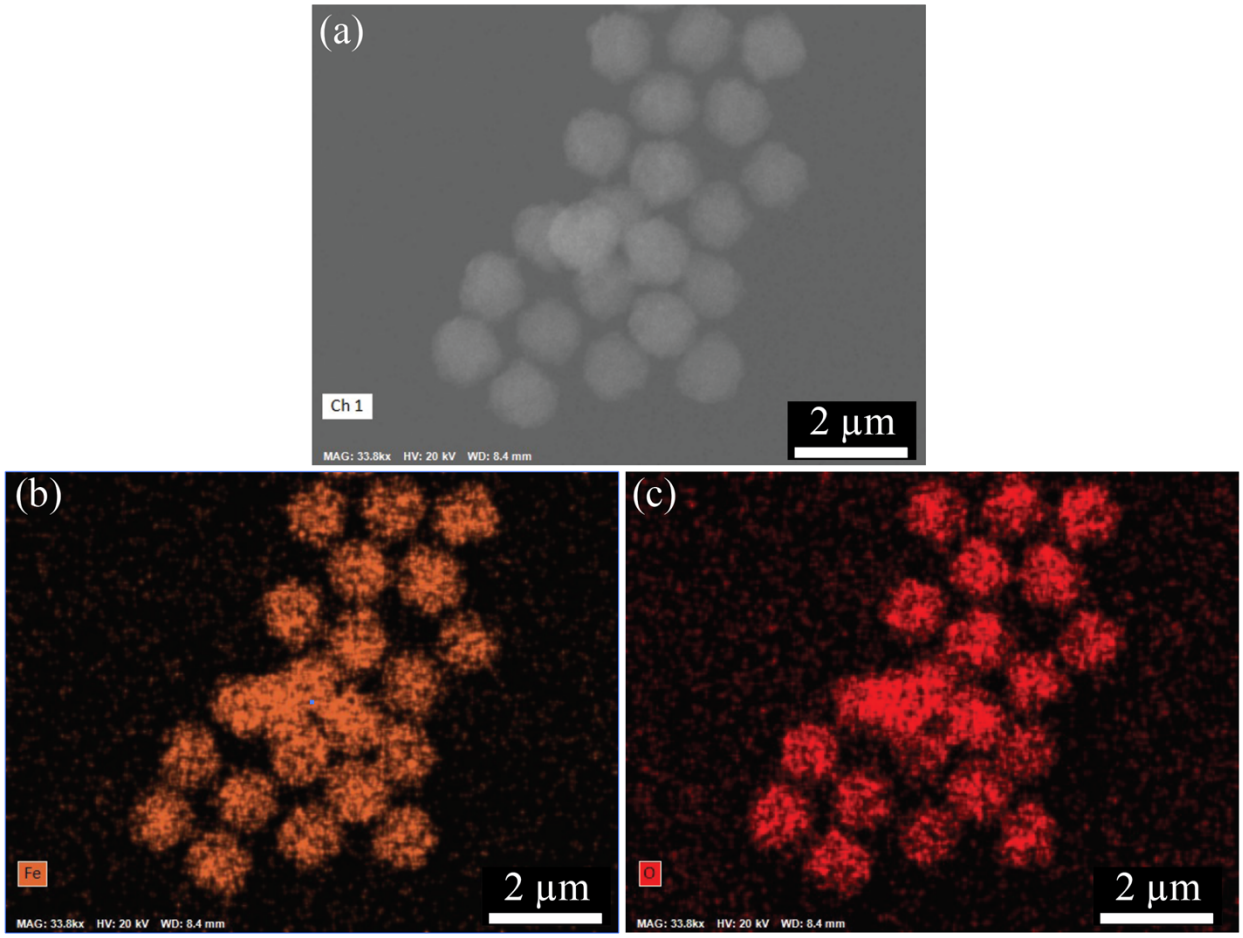

Figure S3. SEM-EDS maps of magnetic microparticles.