

Citrate-coated cobalt ferrite nanoparticles for the nano-enabled biofortification of wheat

Yazmín Stefani Perea-Vélez^a, Rogelio Carrillo González^a, Ma. del Carmen A. González-Chávez^{a*}, Jaco Vangronsveld^{b,c}, Iván Ortiz Monasterio^d, Daniel Tapia Maruri^e

Table S3 Properties of citrate coated CoFe₂O₄ NPs

Feature	Value
pH (supernatant)	6.44
Shape	Semi-spherical
Primary size (nm)	13.41±4.58
Hydrodynamic diameter (nm)	216.06±10.46
Polydispersity (%)	18.53±18.53
Zeta potential (mV, in DI water)	10.5 ±6.6
Point of zero charge (pH)	6.8
Fe composition (% by AAS)	48.48 ± 5.2
Co composition (% by AAS)	29.37 ± 1.8
Maximum repulsive potential (nm)	9

AAS, atomic absorption Spectrophotometry; DI, Deionized water; Data from Perea-Vélez et al. ¹

- 1 Y. S. Perea-Velez, M. del C. A. González Chávez, R. Carrillo-González and J. Lopez-Luna, Dissolution kinetics of citrate coated CoFe₂O₄ nanoparticles in soil solution, *Environ. Sci. Nano*, 2022, **9**, 2954–2965. DOI:10.1039/D2EN00330A.