

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

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**Table S6** The estimated cost of NPs production at the laboratory scale and NPs cost in the market.

Reagents	Units	Cost for unit	Cost (MXN)	Cost (USD)
Fe(NO <sub>3</sub> ) <sub>3</sub> *9H <sub>2</sub> O	4.3 kg	2992.8 (MXN/kg)	12,869	645
Co(NO <sub>3</sub> ) <sub>2</sub> *6H <sub>2</sub> O	1.5 kg	11089.6 (MXN/kg)	16,634	833
NaOH	3.03 kg	670.48 (MXN/kg)	2,032	102
Sodium citrate	78.42 g	1018.35 (MXN/kg)	80	4
Distilled water	4133.25 L	34.67 (MXN/L)	143,300	7,179
Energy	2000 h	79.81 (MXN/h)	159,620	7,997
Technician	4000 (h)	41.66 (MXN/h)	166,640	8,349
Total			501,175	25,109

  

Supplier	Cost (USD/kg)	Source
NanoChemazone	5,750	<sup>1</sup>
Sigma aldrich	19,400	<sup>2</sup>
Sisco Reseach laboratories Pvt.Ltd	17,174	<sup>3</sup>

- 1 Nanochemazone, Cobalt Ferrite Nanoparticles, <https://www.nanochemazone.com/product/cobalt-ferrite-nanoparticles/>, (accessed 13 October 2022).
- 2 Sigma-Aldrich, Cobalt iron oxide nanopowder, <https://www.sigmaaldrich.com/US/en/product/aldrich/773352>, (accessed 13 October 2022).
- 3 S. R. Laboratories, Cobalt iron oxide nanopowder, <https://www.srlchem.com/products/compound/Cobalt-Ferrite-Nanopowder/31570>, (accessed 9 November 2022).