

Supplementary File

Development of Cerium Oxide/Chitosan/Graphene Oxide Nanocomposite: An Investigation towards Its Biological Applications under In Vitro Conditions

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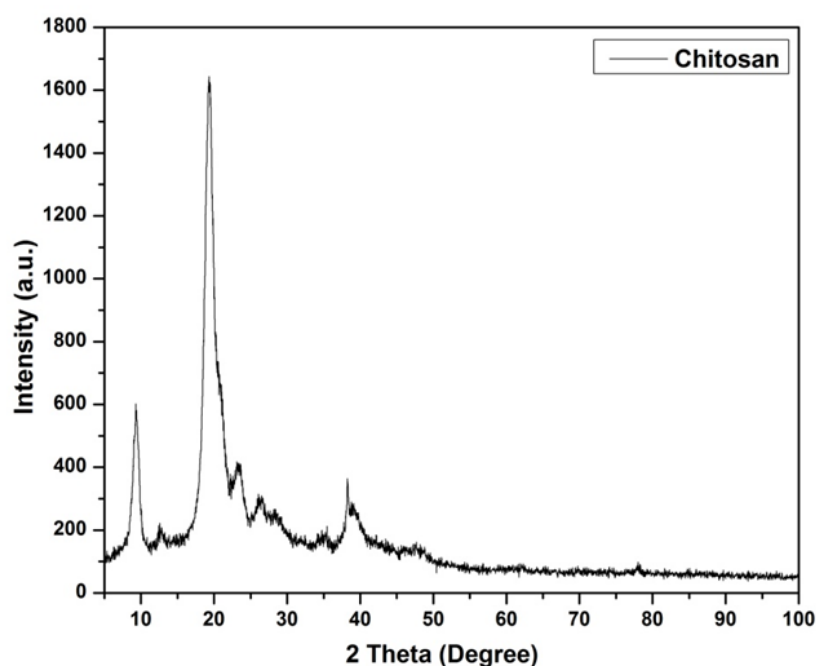


Figure S1: XRD analysis of Chitosan.

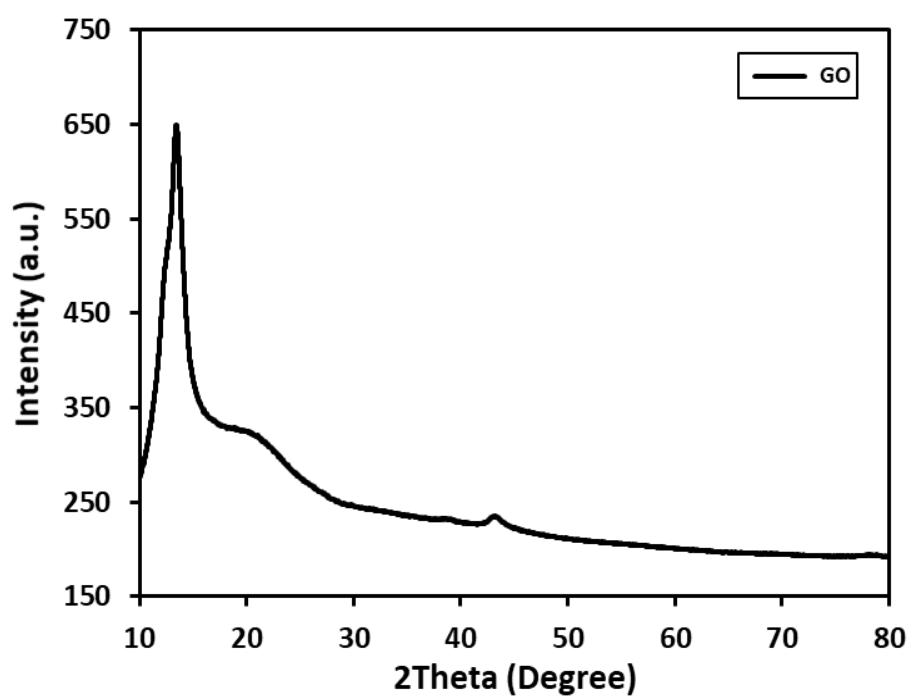


Figure S2: XRD analysis of GO.

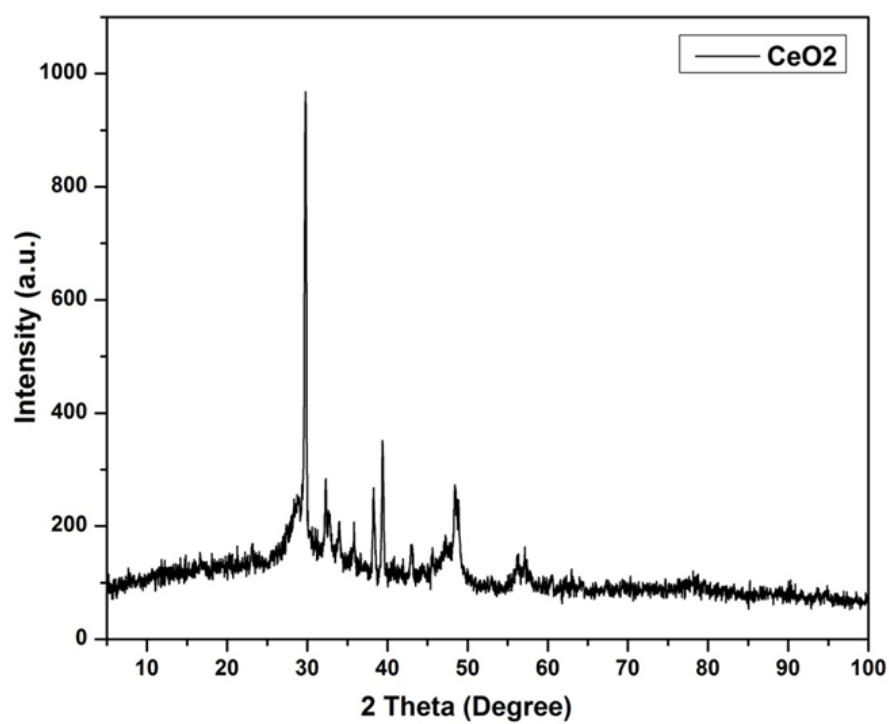


Figure S3: XRD analysis of CeO₂.

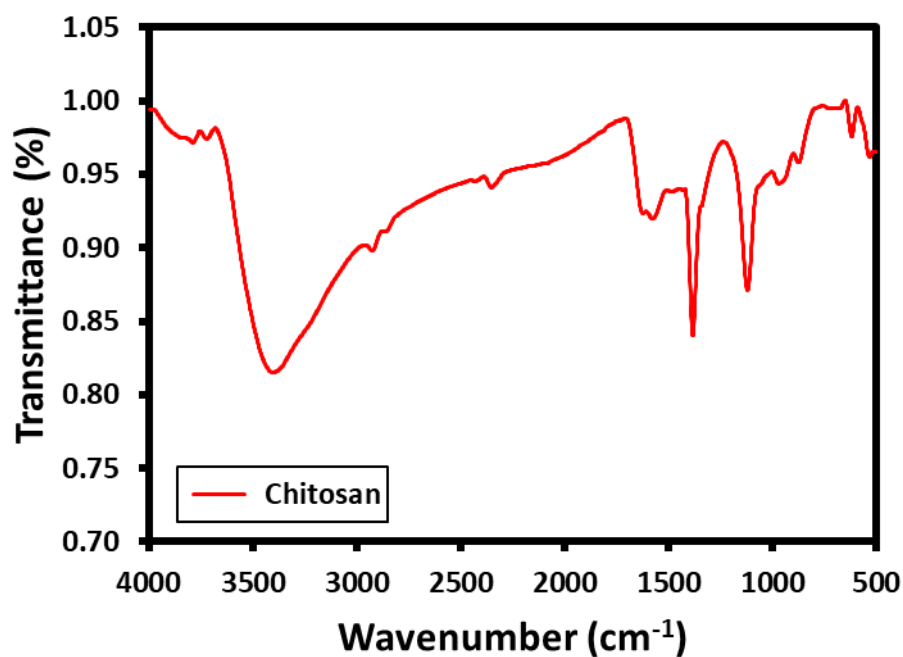


Figure S4: FT-IR analysis of Chitosan.

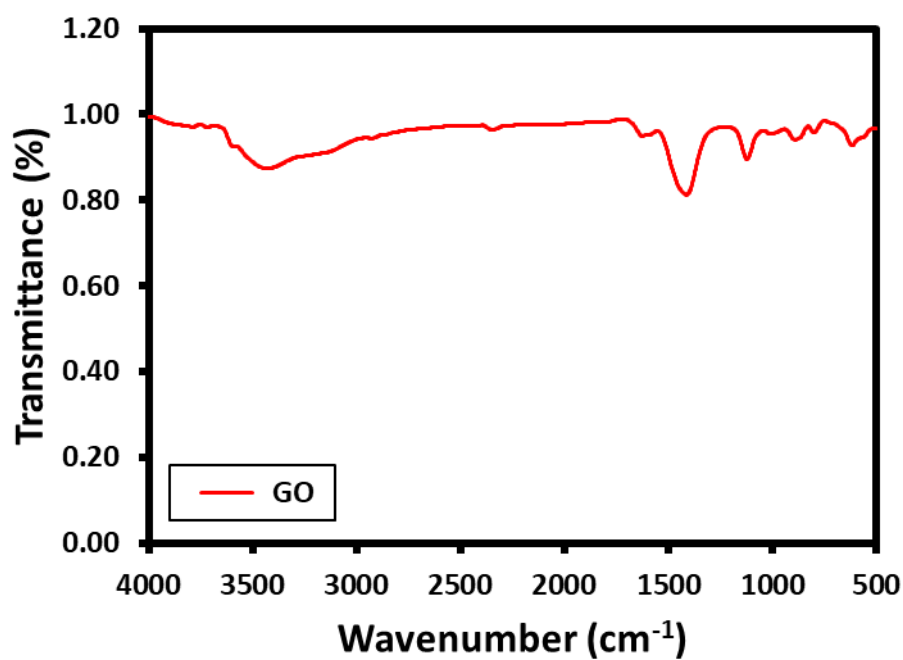


Figure S5: FT-IR analysis of GO.

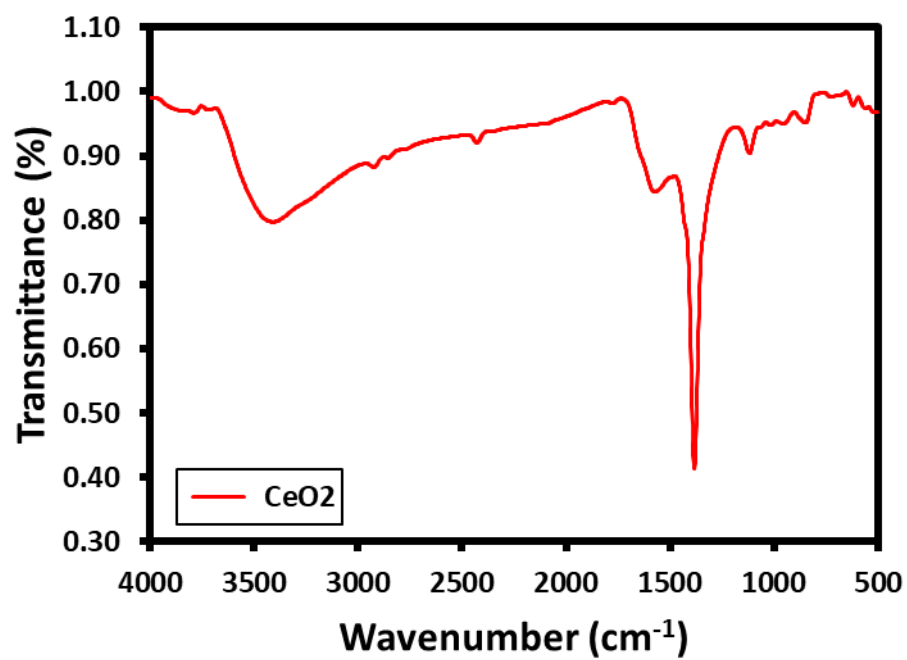


Figure S6: FT-IR analysis of CeO₂.

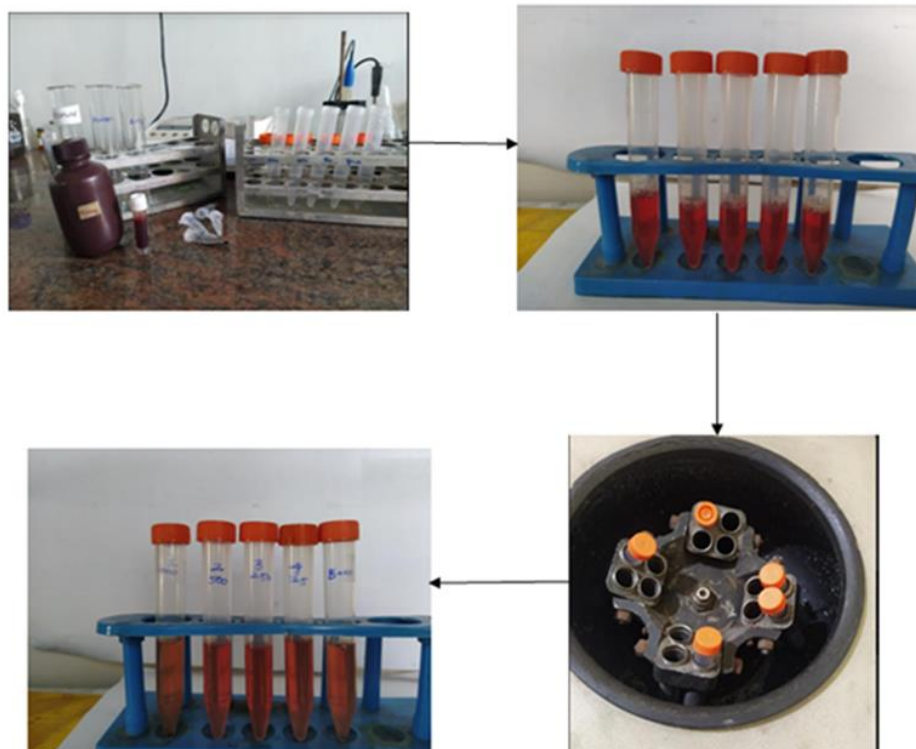


Figure S7. Hemolysis assay using the CeO₂/CS/GO ternary nanocomposite.

Table S1: Elemental composition of the CeO₂/CS/GO ternary nanocomposite.

Spectrum 4				
Element	Line Type	Wt%	Wt% Sigma	Atomic %
C	K series	8.68	2.59	17.63
O	K series	36.61	1.29	55.86
Na	K series	10.57	0.54	11.22
S	K series	12.20	0.50	9.29
K	K series	0.96	0.15	0.60
Ce	L series	30.99	1.12	5.40
Total:		100.00		100.00

Table S2: Hemolysis assay response upon interaction of CeO₂/CS/GO ternary nanocomposite with HRBCs.

CeO ₂ /CS/GO ternary nanocomposite	UV for human red blood cells (HRBC)
1000 µg/disc	0.5
500 µg/disc	0.696
250 µg/disc	0.711
125 µg/disc	0.622
Blank	0.622