

Supplementary data to:

**EXPLOITING *IN VITRO* POTENTIAL AND CHARACTERIZATION
OF SURFACE MODIFIED ZINC OXIDE NANOPARTICLES OF
ISODON RUGOSUS EXTRACT: THEIR CLINICAL POTENTIAL
TOWARDS HEPG2 CELL LINE AND
HUMAN PATHOGENIC BACTERIA**

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Supplementary Table 1: Protocol for SRB Assay

SRB Assay				
Cell seeding	Treatment	Cell fixation	Cell Staining	Dye Solubility
1200 cells/well in 96 well plate (100 ul/well)	Done for 24 hours at 37°C, 200µg/ml of samples (1µl/well)	Addition of 50% TCA (25µl/well) at 4°C for 1 hours followed by washing	Addition of 0.01% SRB dye (50µl/well) for 30min at room temperature followed by washing with 1% acetic acid	Addition of 10mM Tris (pH8) to dissolve SRB dye(100 µl/well) for 5min, reading taken at 565nm

Abbreviations: TCA: Trichloroacetic acid, Tris: tromethamine; SRB: Sulforhodamine B

Supplementary Table 2: Raw data for cytotoxicity tests. Percentage cell viability and inhibition of HepG2 cell line

Results		
Samples	% viability (mean)	% inhibition (mean)
CE	29.47 ±1.4	70.53 ± 1.48
C-ZnO NPs	23.92 ± 1.5	76.08 ±1.44
WPE	30.98 ± 1.6	69.02 ± 1.47
W-ZnO NPs	35.12 ±1.4	65 ± 1.45
DMSO	88.6 ± 1.7	11.4 ± 1.5
Doxorubicin	20.11± 1.8	80 ± 1.46

Abbreviations: C-ZnO NPs: Callus derived zinc oxide nanoparticles; W-ZnO NPs: Whole plant derived zinc oxide nanoparticles; HepG2 Cell Line Hepatocellular carcinoma cells; CE: Callus extract; WPE: Whole plant extract; DMSO: Dimethyl sulfoxide (negative control); Doxorubicin: positive control