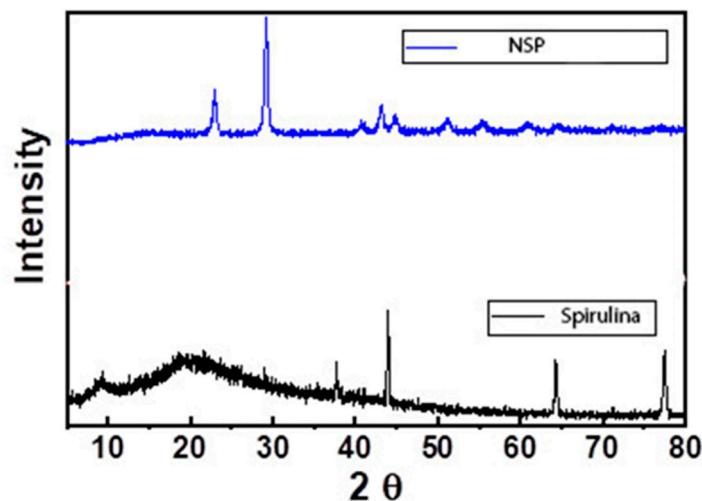


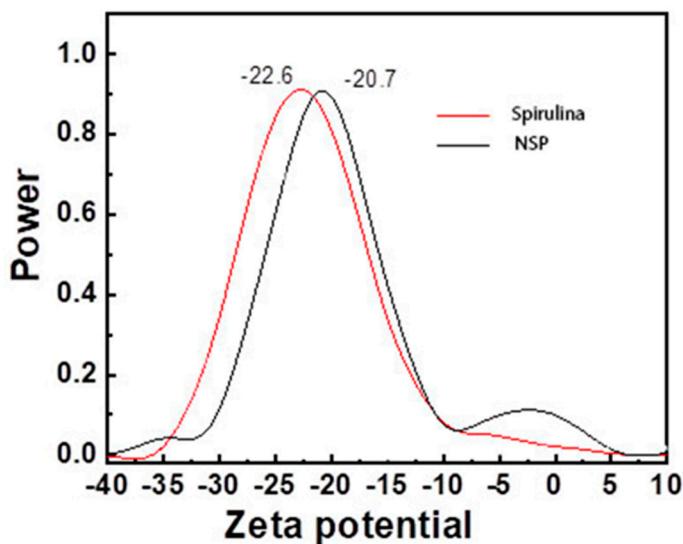


# Supplementary Materials: Impending Chemotherapeutic Impact of *Arthrospira Platensis* Nanoparticles and/or Sorafenib against Hepatocellular Carcinoma through Modulation of Anti-oxidant Status, Tumor Marker Genes, and Anti-Inflammatory Signaling Pathways

Heba I. Ghamr

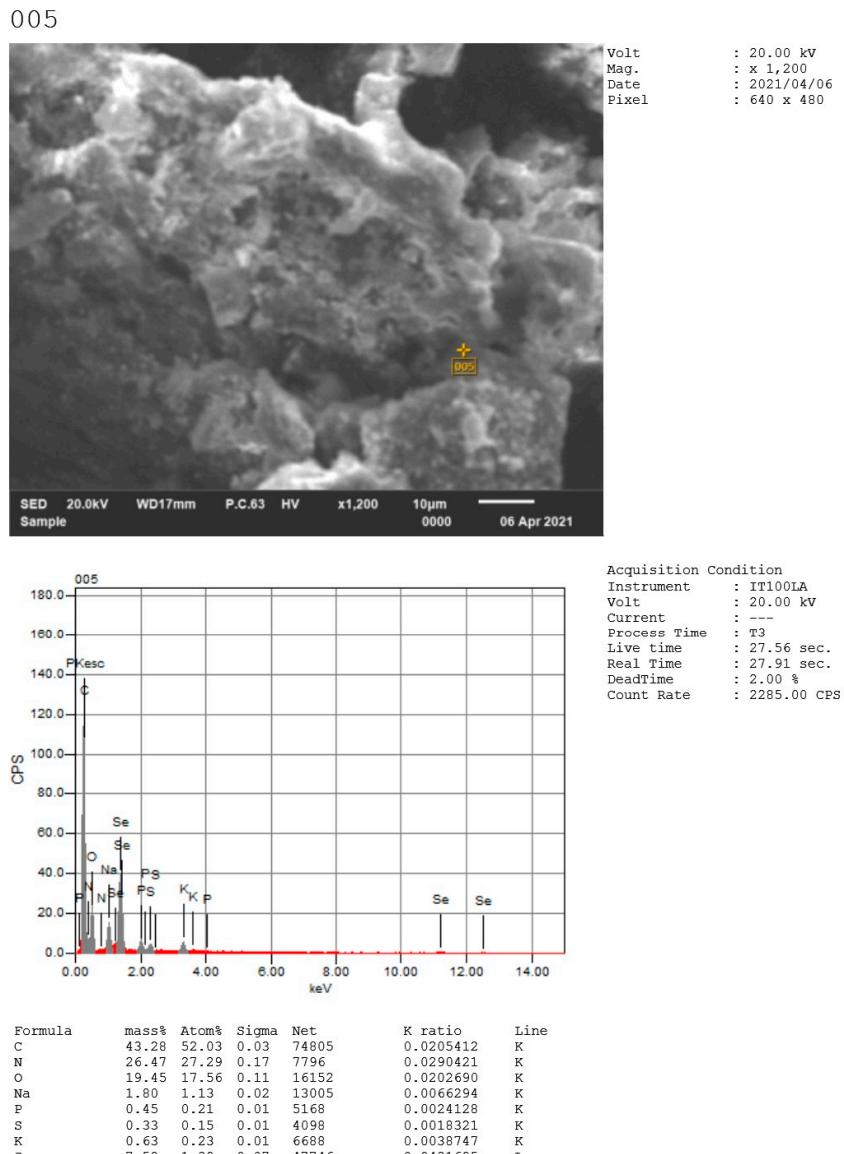


A. XRD patterns of *Spirulina Platensis* NSP



B. Zeta potential of *Spirulina Platensis* NSP

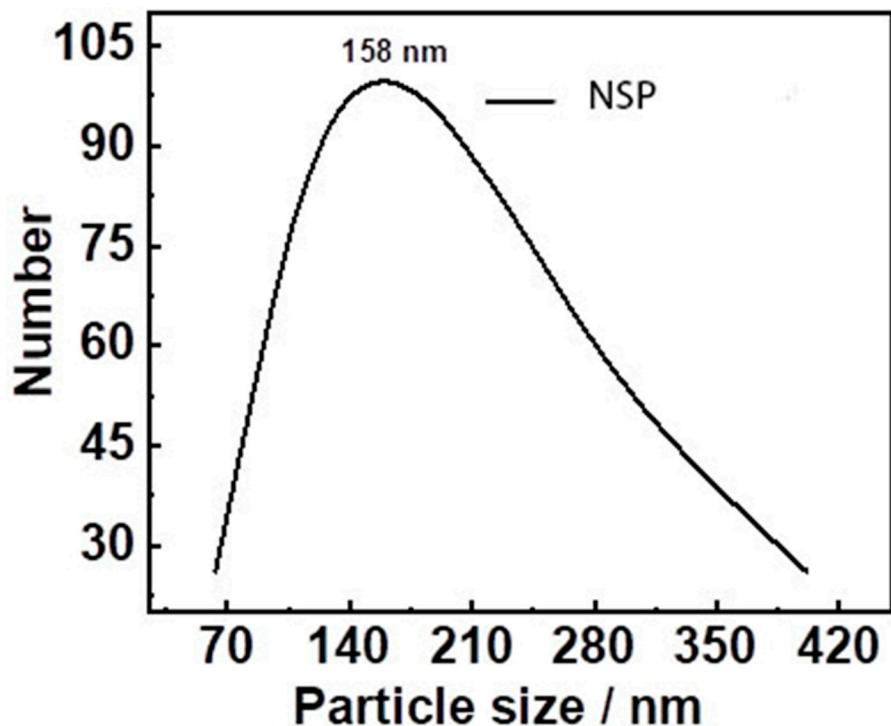
**Figure S1:** XRD patterns of *Spirulina Platensis* NSP;



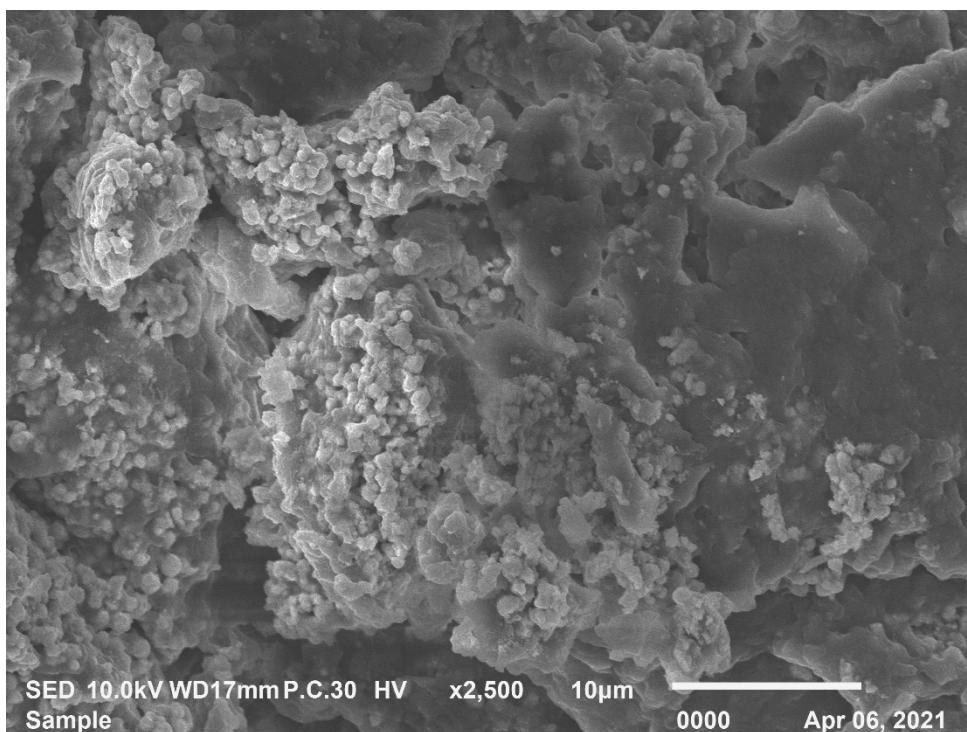
JEOL EDS System

JEOL

Figure S2: Zeta potential of Spirulina Platensis NSP;



**Figure S3:** Particle size of *Spirulina Platensis* NSP;



**Figure S4:** Scanning of *Spirulina Platensis* NSP;

**Table S1.** The percentage of expression of both markers.

% of GPC-3 expression/1000 cells	0.0±0.0D	0.4300±0.39a	0.2360±0.02b	0.2820±0.012b	0.1880±0.017c
% of Hep Par 1 expression/1000 cells	0.06200±0.0 d	0.6140±0.029 a	0.4100±0.013 b	0.3900±0.014 b	0.2620±0.016c

Data are presented as the mean ± SE. Mean values with different letters in the same column differ significantly at ( $p \leq 0.05$ ) ( $n = 8$ ).