

“Supporting Information for Publication of”

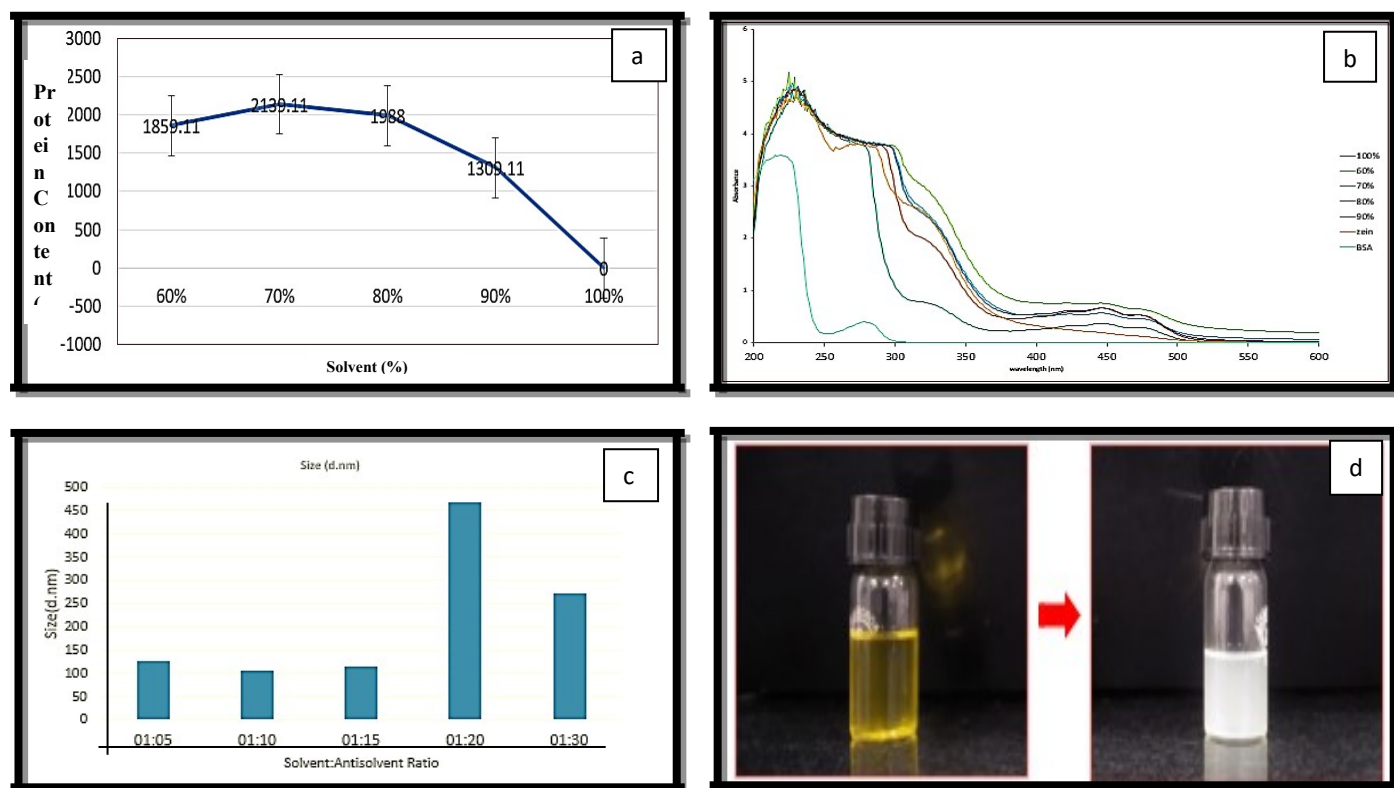
**"Sustainable Nanofiber Synthesis from Corn Protein Meal for Enhanced
Vitamin E and Curcumin Nutrient Delivery for Food System"**

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The maximum solubilized protein content of CPM was obtained at 70% ethanol concentration (supporting fig 1a) which was used for the NFs synthesis and solubility of CPM at different ethanol concentration was observed by using UV-spectrum (supporting fig 1b). Solvent:Antisolvent system play a significant role on the size of nanoparticles (supporting fig 1c). Colour change was observed in the CPM before and after nanoparticle synthesis (supporting fig 1d).



Supporting fig. 1 For the preparation from nano particle from corn protein meal, using different ratio of a) solvent, b) its UV spectrum, for high protein solubility, the solvent: anti-solvent ratio effect on c) size of nano-particles of corn protein meal and d) colour variation before and after the nano particle preparation of corn protein meal.

Electrospinning parameters

Electrospinning parameter for nanofibers synthesis given in supporting information [table 1](#).

Supporting table 1: Electrospinning parameter for nanofibers synthesis.

<i>Sample No.</i>	<i>Sample Name</i>	<i>Sample content</i>	<i>Flow rate (ml/hr)</i>	<i>Potential (kV)</i>	<i>TCD (cm)</i>	<i>PVP (%)</i>
1	CpN	CPM Nano-particles	0.3	10	12	1
2	CpN-V	CpN + Vitamin E	0.3	10	12	1
3	CpN-V-CrN	CpN + Vitamin E + CrN	0.3	10	12	1