

SUPPLEMENTARY MATERIAL

Self-Assembled Chitosan/Dialdehyde Carboxymethyl Cellulose Hydrogels: Preparation and Application in the Removal of Complex Fungicide Formulations from Aqueous Media

Claudiu-Augustin Ghiorghita, Maria Marinela Lazar, Luminita Ghimici and Maria Valentina Dinu *

"Petru Poni" Institute of Macromolecular Chemistry, Grigore Ghica Voda Alley 41 A,
700487 Iasi, Romania; claudiu.ghiorghita@icmpp.ro (C.-A.G.); maria.lazar@icmpp.ro (M.M.L.);
lghimici@icmpp.ro (L.G.)
* Correspondence: vdinu@icmpp.ro

Figure S1. Conductometric titration profiles of the non-oxidized and oxidized CMC1 and CMC2.

Figure S2. FTIR spectra of DA-CMC2.2 and DA-CMC2.3.

Figure S3. Optical images of CS/CMC2 and CS/DA-CMC2.3 hydrogels prepared at 1:1 wt. ratio.

Figure S4. FTIR spectra of CS/CMC2 PEC sponges prepared at different weight ratios.

Table S1. NH₂/COOH and NH₂/C=O molar ratio as a function of hydrogels composition.

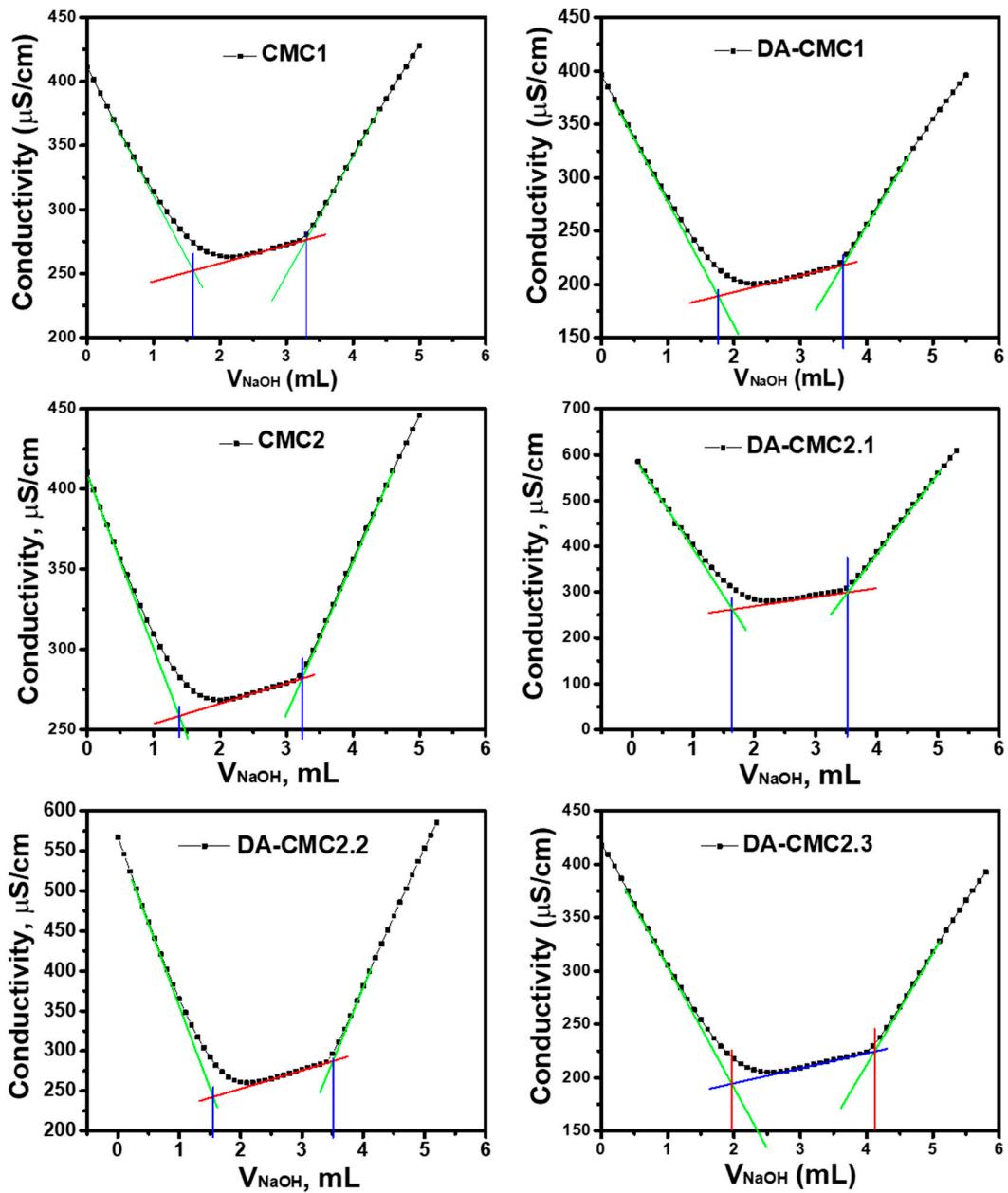


Figure S1. Conductometric titration profiles of the non-oxidized and oxidized CMC1 and CMC2.

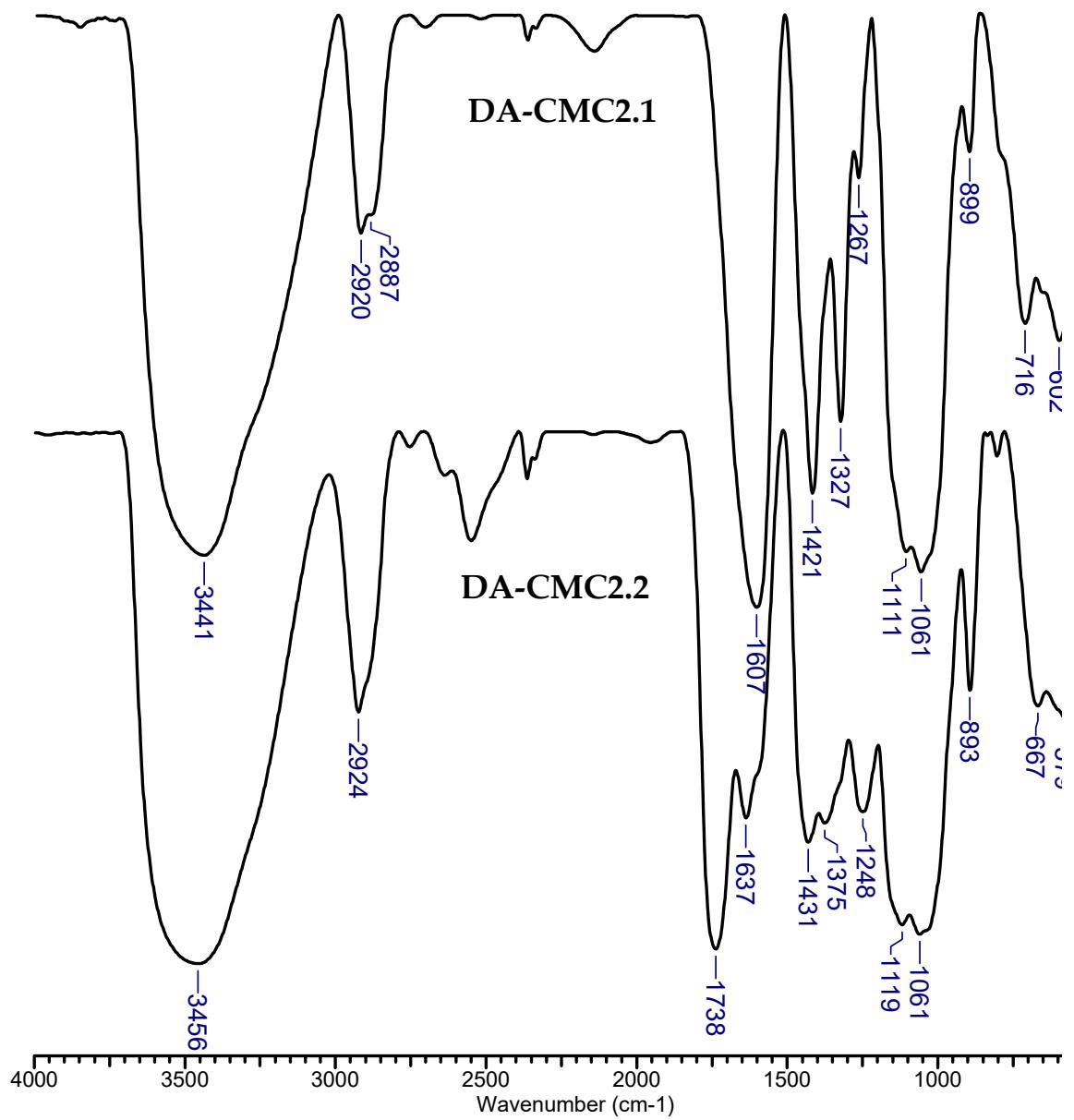


Figure S2. FTIR spectra of DA-CMC2.2 and DA-CMC2.3.

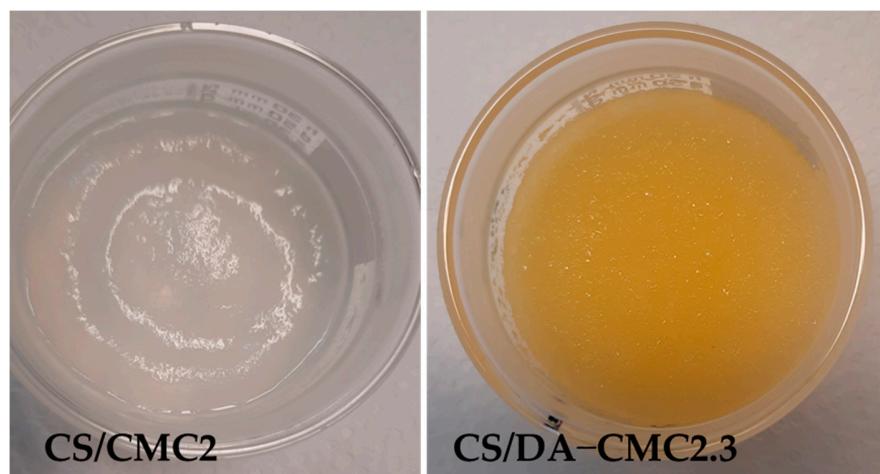


Figure S3. Optical images of CS/CMC2 and CS/DA-CMC2.3 hydrogels prepared at 1:1 wt. ratio.

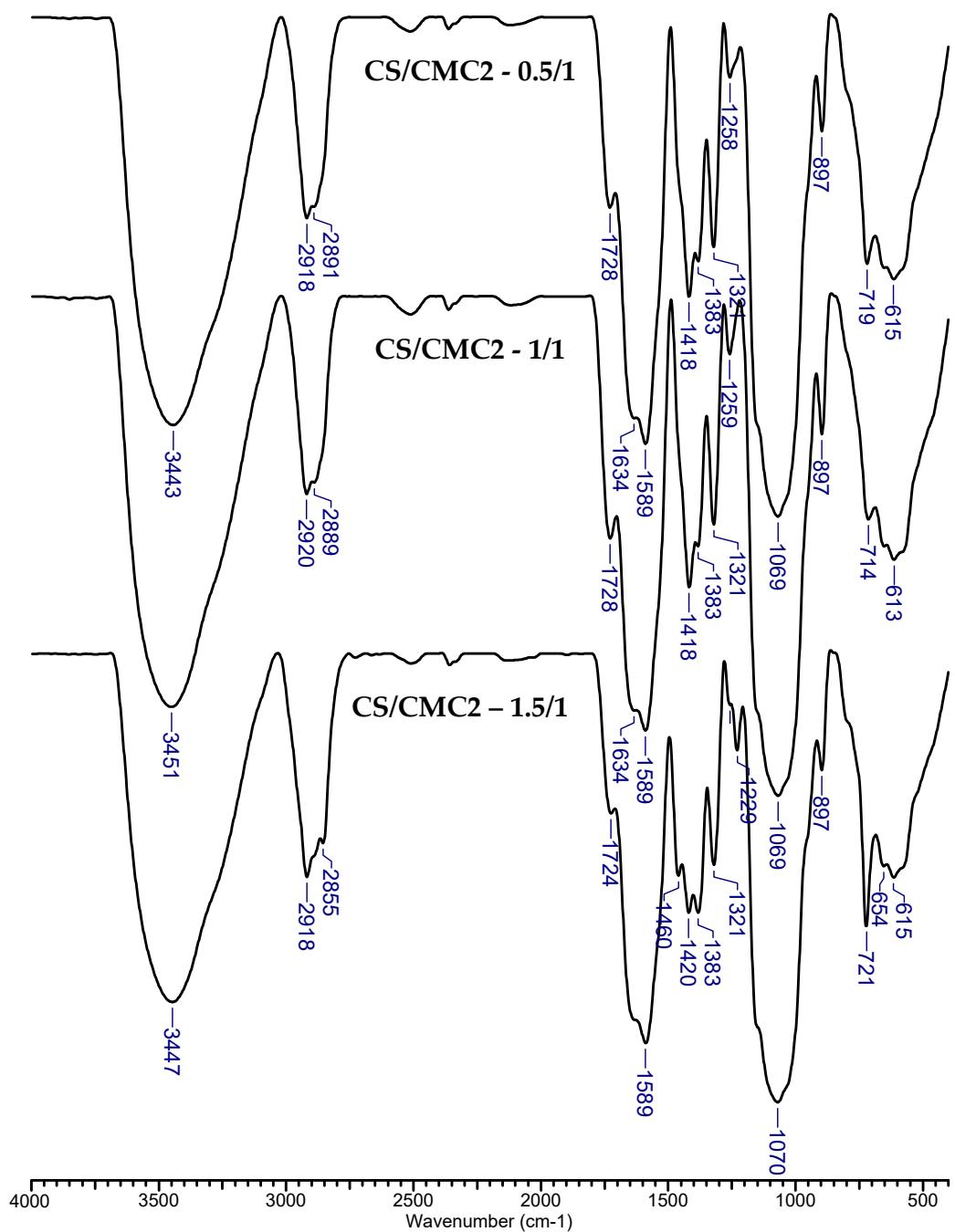


Figure S4. FTIR spectra of CS/CMC2 PEC sponges prepared at different weight ratios.

Table S1. NH₂/COOH and NH₂/C=O molar ratio as a function of hydrogels composition.

PEC	Molar ratio	
	NH ₂ /COOH	NH ₂ /C=O
CS/CMC1 – 0.5/1	0.65	-
CS/CMC1 – 1/1	1.30	-
CS/CMC1 – 1.5/1	1.95	-
CS/DA-CMC1	1.16	0.78
CS/CMC2 – 0.5/1	0.59	-
CS/CMC2 – 1/1	1.18	-
CS/CMC2 – 1.5/1	1.76	-
CS/DA-CMC2.1 – 1.1	1.16	0.25
CS/DA-CMC2.2 – 1.1	1.14	0.44
CS/DA-CMC2.3 – 0.5/1	0.51	1.29
CS/DA-CMC2.3 – 1/1	1.01	0.65
CS/DA-CMC2.3 – 1.5/1	1.52	0.43