

Preparation of gels of Chitosan through Hydrothermal Reaction in the Presence of Malonic Acid and Cinnamaldehyde: Characterization and Antibacterial Activity

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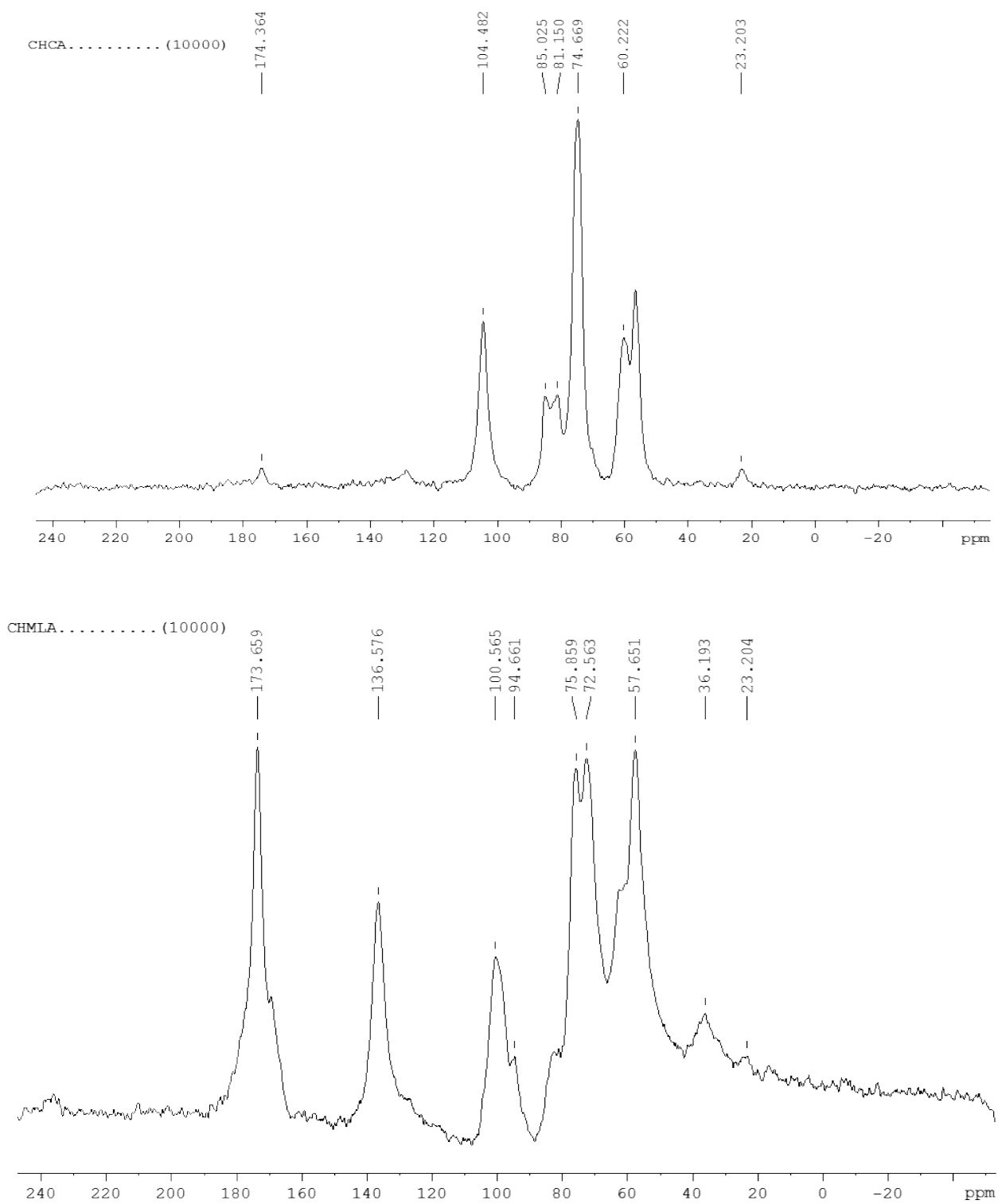


Figure S1. Solid state NMR spectrum of CHCA and CHMLA (control reactions)

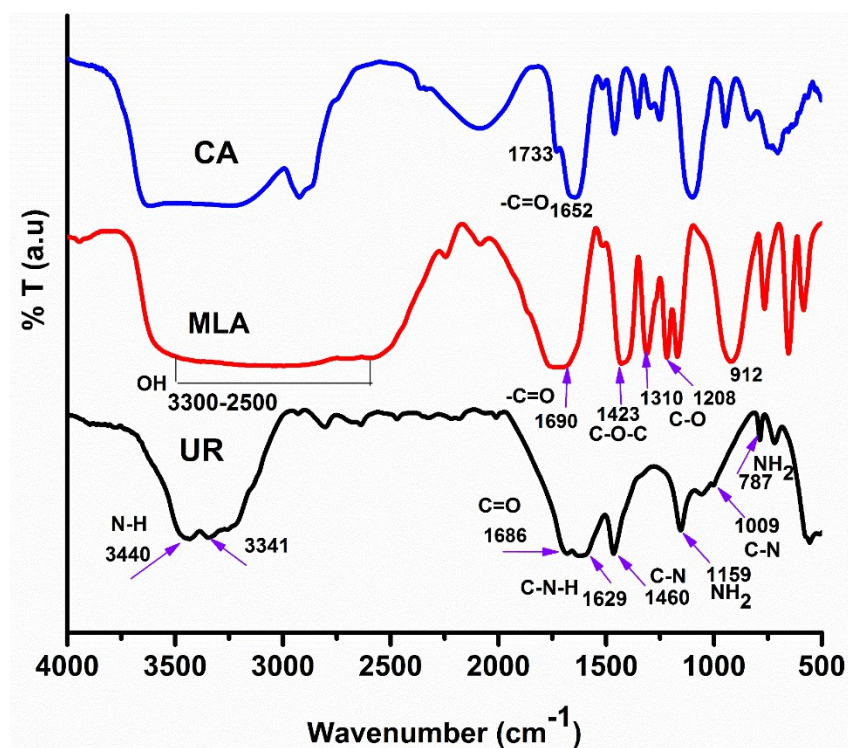


Figure S2. FT-IR spectrum of urea (UR), malonic acid (MLA) and cinnamaldehyde (CA).

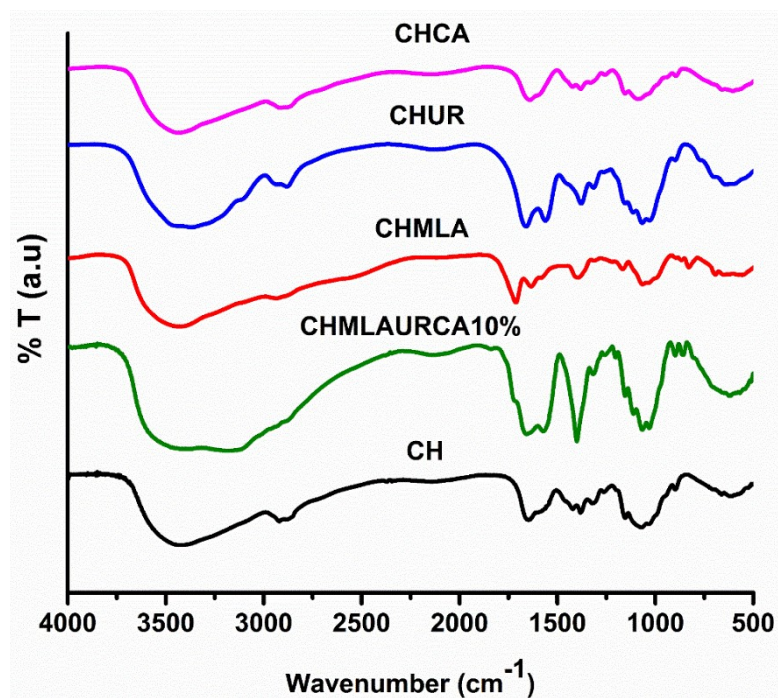


Figure S3. FT-IR spectrum of chitosan (CH), CHMLAURCA 10% and CHMLA, CHUR, CHCA (control reactions)

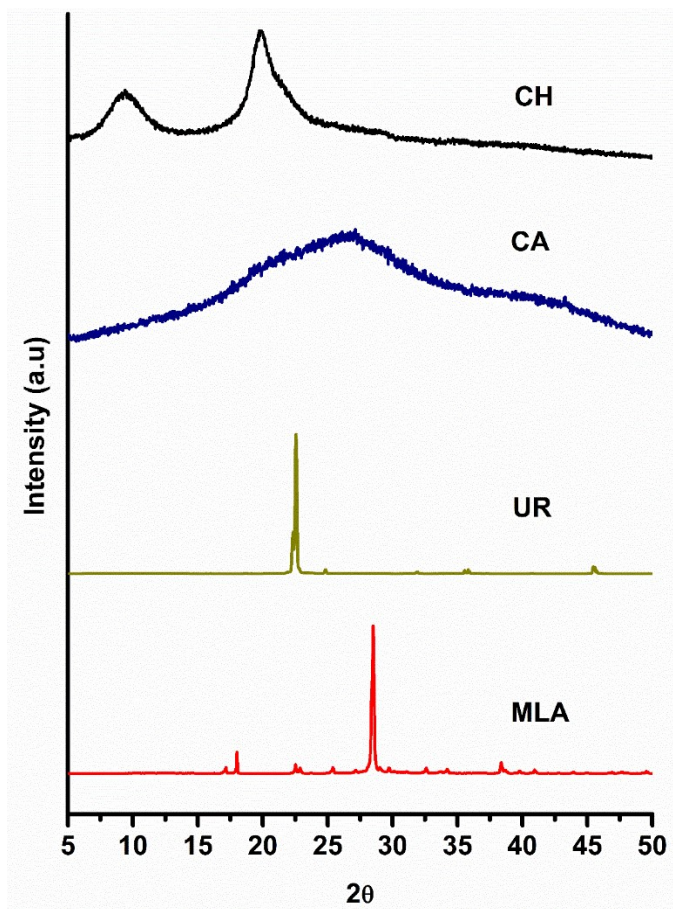


Figure S4. PXRD pattern of MLA, UR, CA and CH

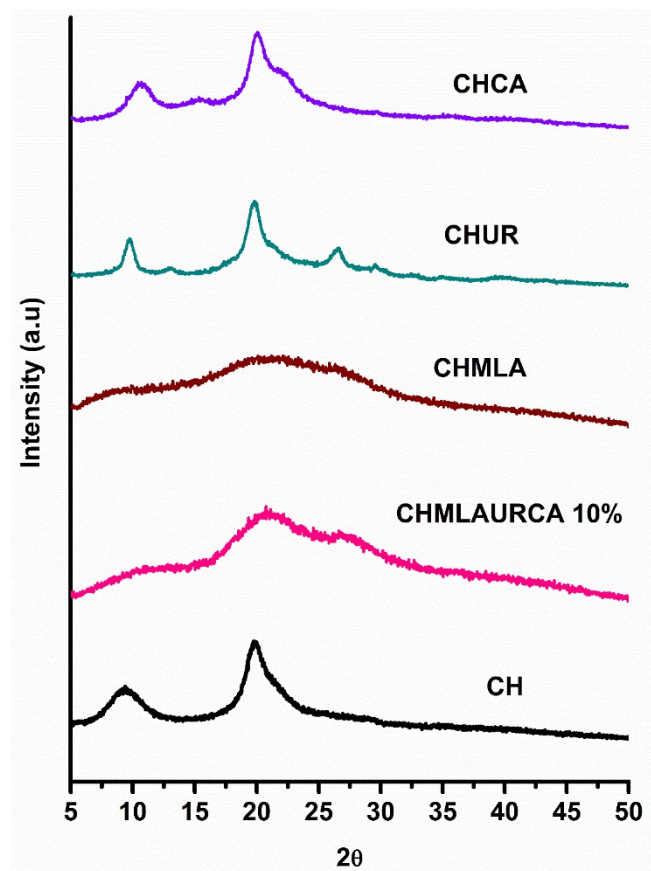


Figure S5. PXRD pattern of chitosan (CH), CHMLAURCA 10% and CHMLA, CHUR, CHCA (control reactions)

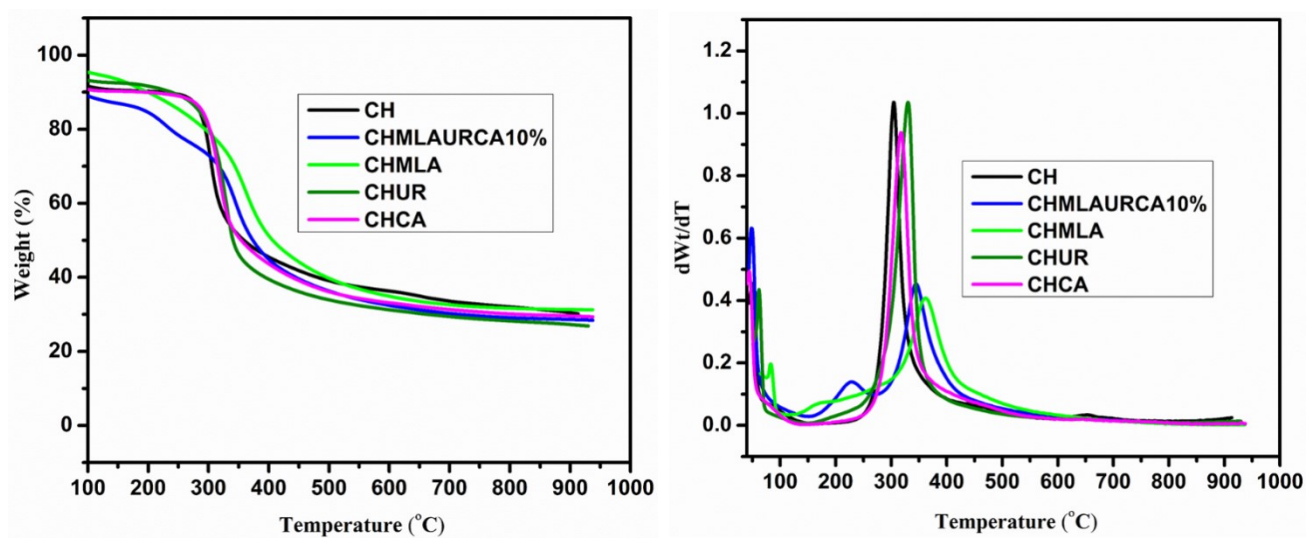


Figure S6. TGA and DTG of CH, CHMLAURCA 10% and CHMLA, CHUR, CHCA (control reactions).



Figure S7. Photograph of as prepared CHMLAUR-CA 10% gel.