Supplementary Materials: In Vitro Antimicrobial Studies of Mesoporous Silica Nanoparticles Comprising Anionic Ciprofloxacin Ionic Liquids and Organic Salts

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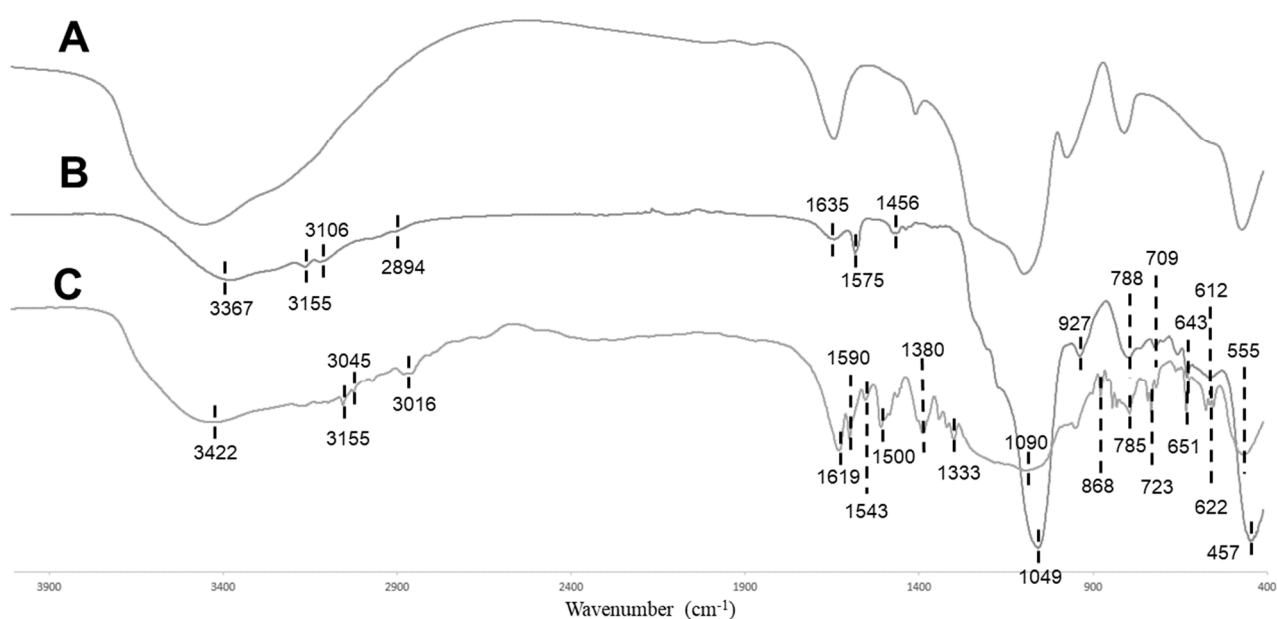
Figure S1. FTIR spectra of (A) pristine MSNs; (B) [MSN-1-MiM]Cl; and (C) [MSN-1-MiM][Cip].
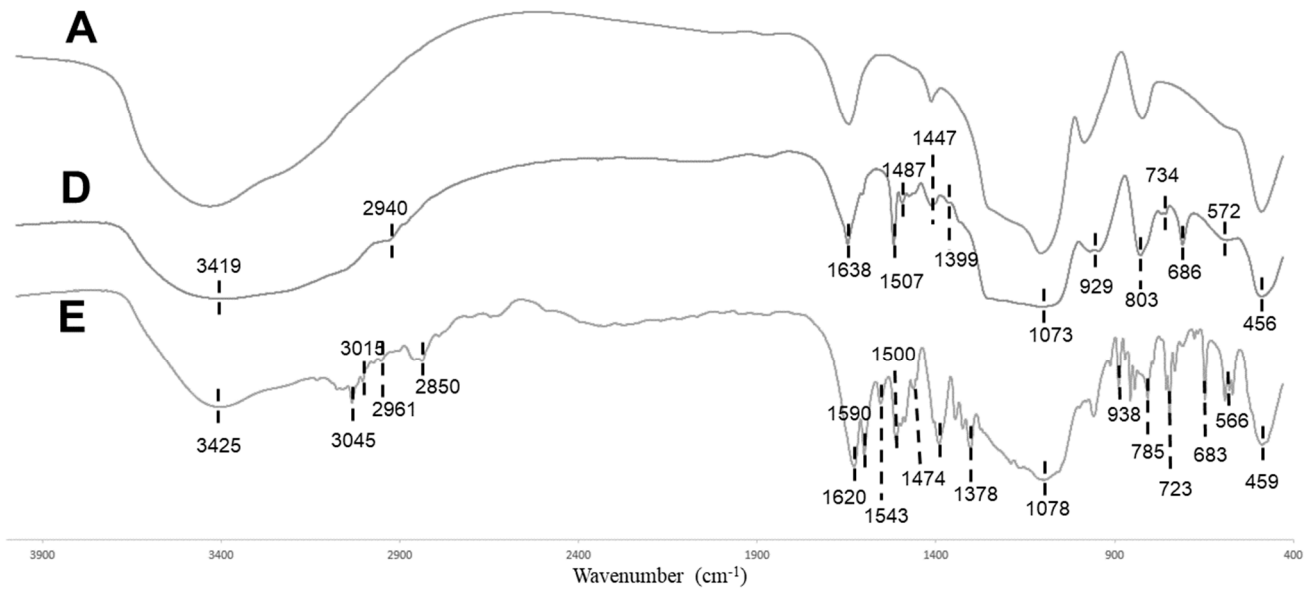
Figure S2. FTIR spectra of (A) pristine MSNs; (D) [MSN-3-Pic]Cl; and (E) [MSN-3-Pic][Cip].
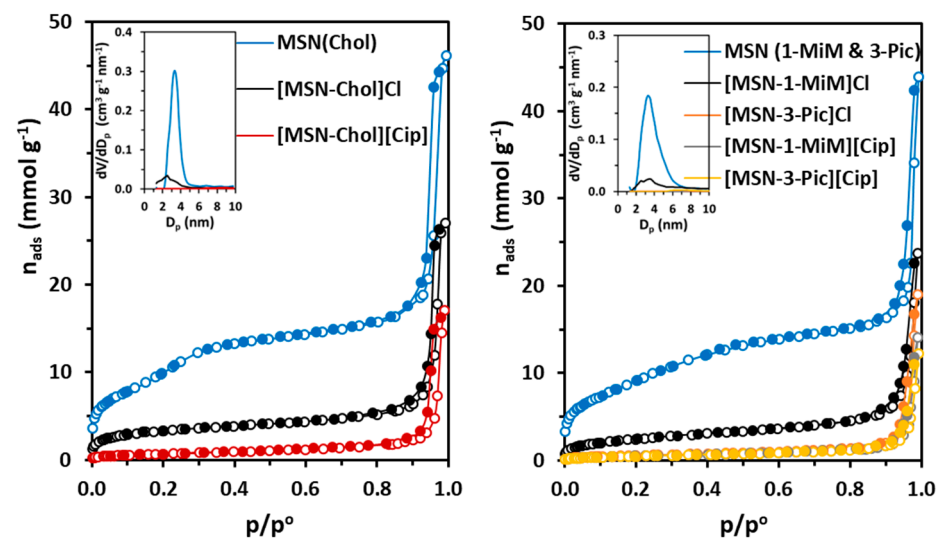

Figure S3. Nitrogen adsorption-desorption isotherms determined at 77 K on the prepared nanomaterials: (left) pristine MSN (Chol) and derived materials; (right) pristine MSN (1-MiM and 3-Pic) and derived materials. NLDFT pore size distributions are inserted into the figures.
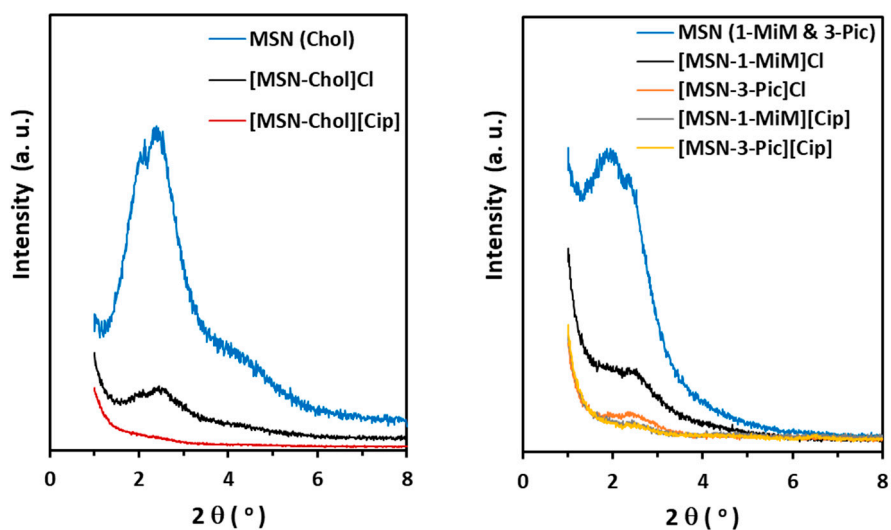
Figure S4. X-ray diffraction patterns of the prepared nanomaterials: (left) pristine MSN (Chol) and derived materials; (right) pristine MSN (1-MiM and 3-Pic) and derived materials.

Table S1. Phenotypical profile of *K. pneumoniae* strains of bacteria and their respective resistance profile obtained. S – means sensitivity to the antibiotic; R – means resistance to the antibiotic;

Antibiotic Strain	AMP	AUG	FOX	CAZ	CTX	FEP	ATM	MEM	ERT	IMP	AK	CN	TET	CIP	NA	SXT	CHL
HS16	R	R	S	R	R	R	R	S	S	S	S	R	S	R	R	R	R
HS31	R	S	S	S	S	S	S	S	R	S	S	S	S	S	S	S	S

Table S2. Phenotypical profile of *Enterococcus* spp. strains of bacteria and their respective resistance profile. S – means sensitivity to the antibiotic; R – means resistance to the antibiotic;

Antibiotic Strain	AMP	VAN	TEC	E	TET	CIP	F	RD	FOS	C	QD	LNZ	CN
FC89-8R	S	S	S	S	R	S	S	S	S	S	S	S	S
FC89-10R	S	S	S	R	R	R	S	R	S	S	S	S	S