

Supplementary Materials

Biocomposite Hydrogels for the Treatment of Bacterial Infections: Physicochemical Characterization and In Vitro Assessment

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Table S1. EDAX elemental analysis for biocomposite hydrogels.

Sample	Element	Weight %	Atomic %
C2P4.10.Z3	C K	54.93	63.68
	N K	1.94	1.93
	O K	38.88	33.83
	ZnK	1.53	0.38
	PtM	2.72	0.18
C2P4.10.Z5	C K	48.42	57.45
	N K	3.82	3.89
	O K	42.4	37.76
	ZnK	3.4	0.77
	PtM	1.96	0.13
C2P4.15.Z3	C K	53.6	62.04
	N K	1.59	1.58
	O K	41.33	35.91
	ZnK	1.57	0.33
	PtM	1.91	0.14
C2P4.15.Z3	C K	49.21	58.91
	N K	3.16	3.24
	O K	40.87	36.73
	ZnK	3.48	0.93
	PtM	3.28	0.19

Table S2. ANOVA statistical test for evaluation of antibacterial activity.

Anova statistical test on <i>S. aureus</i>					
	Sum of Squares	Df	Mean Square	F-ratio	Significance Level
Between groups	82.6875	1	82.6875	9.9661	0.0342
Within groups	33.1875	4	8.2968		
Total	115.875	5			
Anova statistical test on <i>E. coli</i>					
	Sum of Squares	Df	Mean Square	F-ratio	Significance Level
Between groups	63.0208	1	63.0208	79.0850	0.0008
Within groups	3.1875	4	0.7968		
Total	66.2083	5			
Anova statistical test on <i>K. pneumonia</i>					
	Sum of Squares	Df	Mean Square	F-ratio	Significance Level
Between groups	29.0785	1	29.0785	22.997	0.0086
Within groups	5.0578	4	1.2644		
Total	34.1363	5			