

Supplementary information for the article:

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Supplementary material for

Anodizing/anaphoretic electrodeposition of nano calcium phosphate/chitosan lactate multifunctional coatings on titanium with advanced corrosion resistance, bioactivity and antibacterial properties

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Total of 4 pages. Total of 2 Tables.

The ANOVA results of antimicrobial activity on *S. aureus* are shown in Table S1 and the ANOVA results of antimicrobial activity on *P. aeruginosa* are shown in Table S2. The analysis showed significant difference at the 5% level of confidence.

Table S1. Summary of statistical analysis for the comparison of data for control group, Ti, ACP/TiO₂ and ACP+ChOL/TiO₂ coatings of antimicrobial activity on *S. aureus*.

Sample	Source of variation	Sum of Squares	df	Mean Square	F	Sig.
0 min	Between Groups	0.000	3	0.000	0.986	0.447
	Within Groups	0.000	8	0.000		NS
	Total	0.000	11			
60 min	Between Groups	0.000	3	0.000	1.903	0.208
	Within Groups	0.000	8	0.000		NS
	Total	0.000	11			
120 min	Between Groups	0.001	3	0.000	4.155	0.048
	Within Groups	0.000	8	0.000		S
	Total	0.001	11			
180 min	Between Groups	0.009	3	0.003	7.480	0.010
	Within Groups	0.003	8	0.000		S
	Total	0.012	11			
240 min	Between Groups	0.018	3	0.006	2.901	0.101
	Within Groups	0.017	8	0.002		NS
	Total	0.035	11			
300 min	Between Groups	0.052	3	0.017	3.870	0.056
	Within Groups	0.036	8	0.004		NS
	Total	0.088	11			

360 min	Between Groups	0.025	3	0.008	5.839	0.021
	Within Groups	0.011	8	0.001		S
	Total	0.036	11			
420 min	Between Groups	0.017	3	0.006	7.464	0.010
	Within Groups	0.006	8	0.001		S
	Total	0.023	11			

F^{V1}V2 (0.05), S = significant, NS = Not Significant

Table S2. Summary of statistical analysis for the comparison of data for control group, Ti, ACP/TiO₂ and ACP+ChOL/TiO₂ coatings of antimicrobial activity on *P. aeruginosa*.

Sample	Source of variation	Sum of Squares	df	Mean Square	F	Sig.
0 min	Between Groups	0.000	3	0.000	0.444	0.734
	Within Groups	0.000	4	0.000		NS
	Total	0.000	7			
60 min	Between Groups	0.000	3	0.000	1.481	0.347
	Within Groups	0.000	4	0.000		NS
	Total	0.000	7			
120 min	Between Groups	0.002	3	0.001	17.843	0.009
	Within Groups	0.000	4	0.000		S
	Total	0.002	7			
180 min	Between Groups	0.035	3	0.012	17.434	0.009
	Within Groups	0.003	4	0.001		S
	Total	0.038	7			
240 min	Between Groups	0.184	3	0.061	18.200	0.009
	Within Groups	0.013	4	0.003		S
	Total	0.198	7			

300 min	Between Groups	0.148	3	0.049	138.448	0.000
	Within Groups	0.001	4	0.000		S
	Total	0.149	7			
360 min	Between Groups	0.069	3	0.023	26.047	0.004
	Within Groups	0.004	4	0.001		S
	Total	0.073	7			
420 min	Between Groups	0.077	3	0.026	16.633	0.010
	Within Groups	0.006	4	0.002		S
	Total	0.083	7			

F^{V1}V2 (0.05), S = significant, NS = Not Significant

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