

# Behavior of Calcium Phosphate-Chitosan-Collagen composite coating on AISI 304 for orthopedic applications

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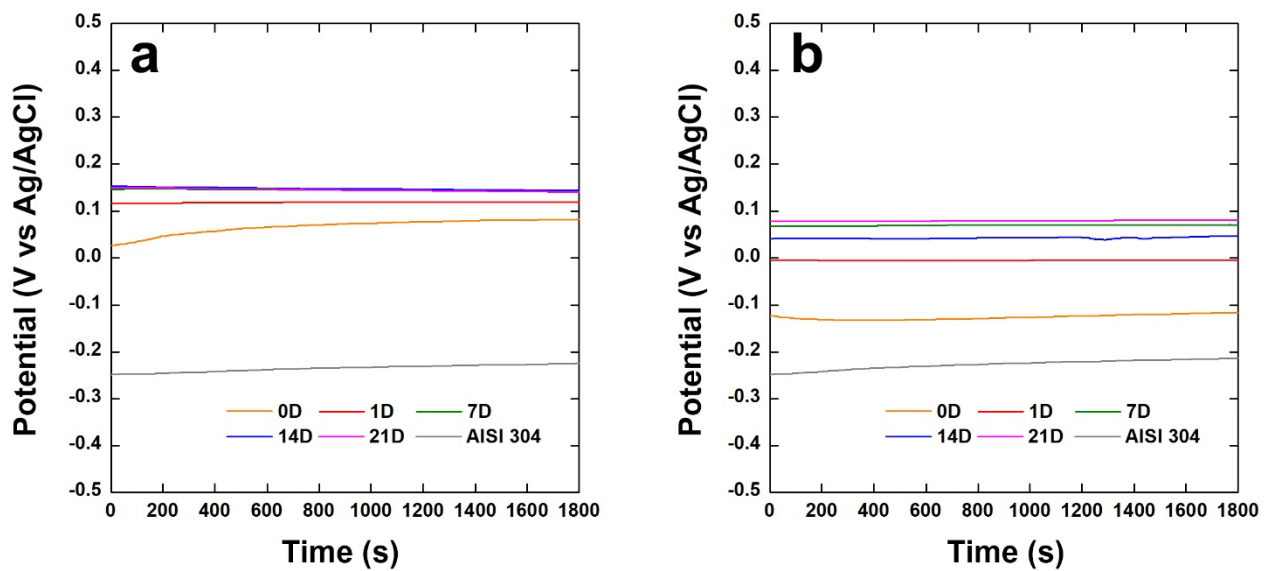
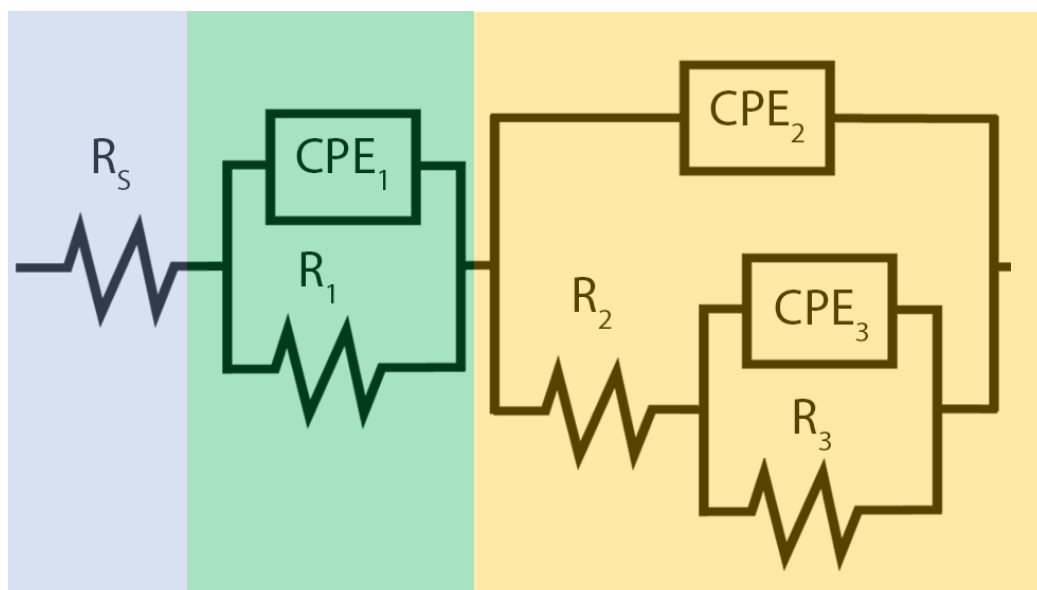


Figure S1: OCP curves of: (a) CaP/CS/CL and (b) CaP/CS coatings.



**Figure S2: Scheme of the Equivalent Circuit**

<i>Reagent</i>	<i>Composition (g/L)</i>
NaCl	5.403
NaHCO <sub>3</sub>	0.74
Na <sub>2</sub> CO <sub>3</sub>	2.046
K <sub>2</sub> HPO <sub>4</sub> · 3H <sub>2</sub> O	0.23
MgCl <sub>2</sub> · 6H <sub>2</sub> O	0.31
HEPES	11.93
CaCl <sub>2</sub>	0.29
Na <sub>2</sub> SO <sub>4</sub>	0.072
1 M NaOH	0.8 mL

**Table S1: Composition of SBF**

	Time (Day)					AISI 304
	0	1	7	14	21	
	R <sub>s</sub> (CPE <sub>1</sub> R <sub>1</sub> )(CPE <sub>2</sub> (R <sub>2</sub> (CPE <sub>3</sub> R <sub>3</sub> )))					R <sub>s</sub> (CPE <sub>3</sub> R <sub>3</sub> )
R <sub>s</sub>	52	47.3	23	17	13	36.82
CPE <sub>1</sub> -Y	7.24E-05	9.36E-05	7.61E-06	3.50E-06	5.67E-06	-
CPE <sub>1</sub> -n	0.9193	0.975	0.4906	0.524	0.5064	-
R <sub>1</sub>	190	1010	1166	2738	2046	-
CPE <sub>2</sub> -Y	2.77E-05	1.22E-05	5.12E-05	1.76E-05	2.59E-05	-
CPE <sub>2</sub> -n	0.644	0.5325	0.526	0.6553	0.6061	-
R <sub>2</sub>	6.39E+04	1.80E+05	2.65E+04	4.71E+04	3.25E+04	-
CPE <sub>3</sub> -Y	4.89E-06	4.96E-05	3.88E-05	3.92E-05	4.12E-05	3.60E-05
CPE <sub>3</sub> -n	0.5157	0.7521	0.8224	0.6799	0.7055	0.8046
R <sub>3</sub>	1.12E+04	3.50E+04	1.00E+06	2.62E+05	3.46E+05	3.07E+05

**Table S2:** Fitting parameters of impedance measurements of CaP/CS/CL coatings obtained by galvanic deposition during 3-weeks of aging in SBF solution.