Electronic Supplementary Information

Enhanced corrosion protection and biocompatibility of PLGA-Silane coating on AZ31 Mg alloy for orthopaedic applications

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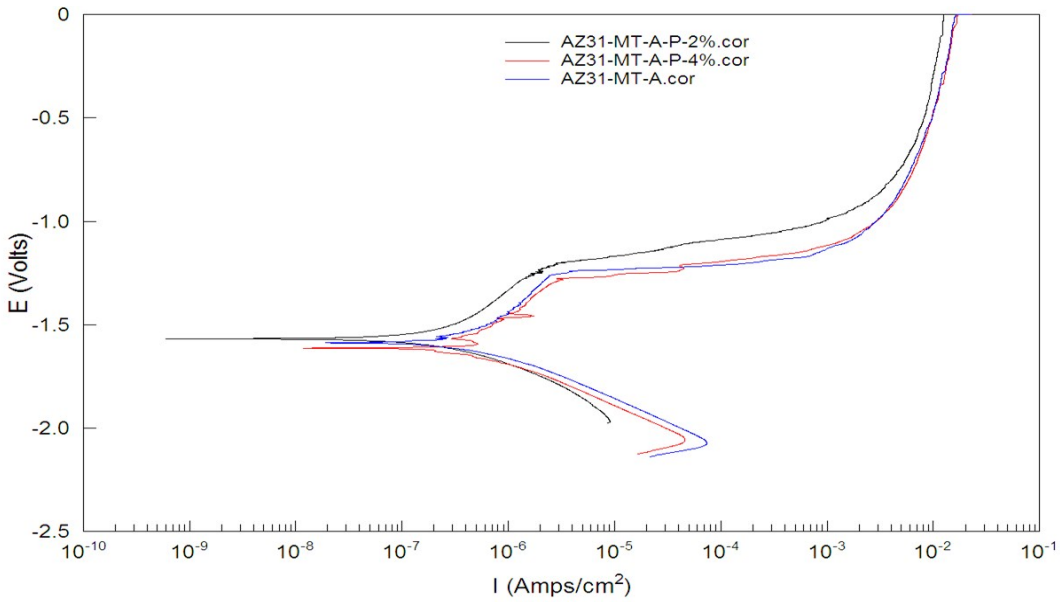

Fig SI 1- Potentiodynamic polarisation curves of modified AZ31 substrate

From the PDS curves, it can be observed that the 4% PLGA coated substrates (AZ31-MT-A-P-4 %) showed lower corrosion resistance with negative shift of E_{corr} to -1.602 V and increase in current density 0.28 A/cm^2 as compared 2% PLGA coated substrates (AZ31-MT-A-P-2%).

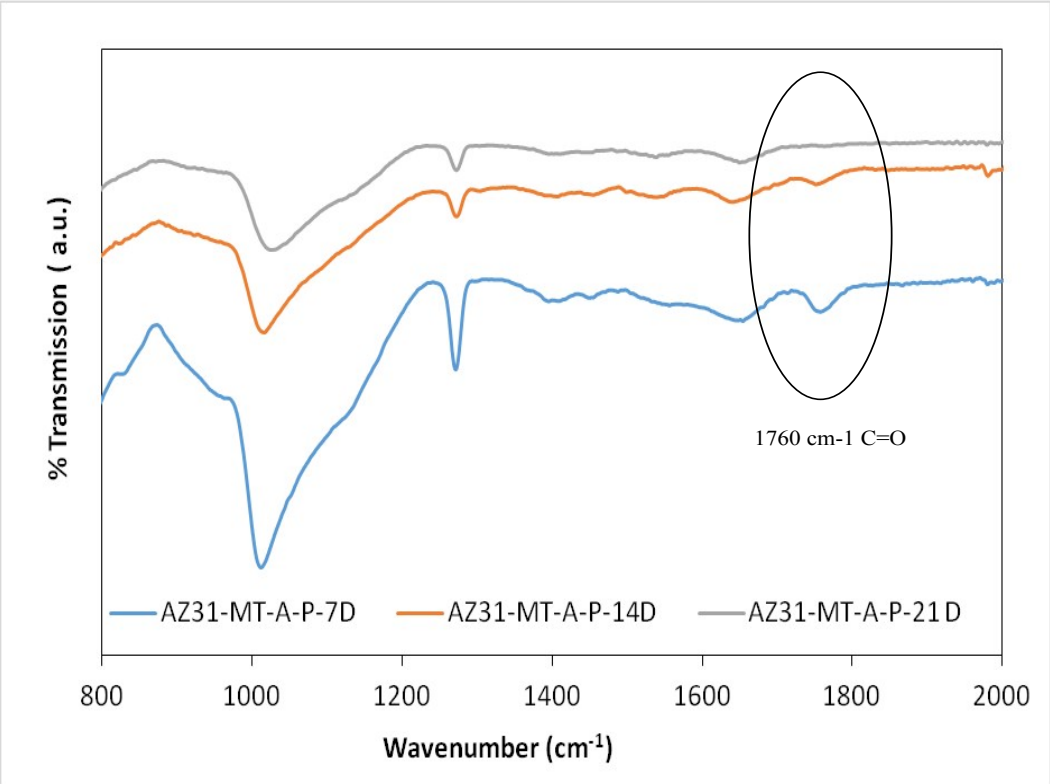

Fig SI 2- ATR-IR of aged AZ31-MT-A-P substrate in DMEM for 7, 14, and 21 days