Electronic Supplementary Information

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

Sankalp Agarwal¹,², Muhammad Morshed¹, Marie-Noelle Labour³, David Hoey³, Brendan Duffy¹, James Curtin², Swarna Jaiswal¹*

Fig S1 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/cm² 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