

Supporting Information for

Augmented Re-endothelialization and Anti-Inflammation of Coronary Drug-Eluting Stent by Abluminal Coating with Magnesium Hydroxide

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Experimental method for Supporting Information

Coating stability test under balloon dilatation: The stability of the PLGA/SRL/MH coating on a stent in the ballooning process was tested with the balloon dilatation test. PLGA/SRL or PLGA/SRL/MH-coated stent was mounted onto an angioplasty balloon using a stent crimper. The balloon was dilated at a pressure of 8 ~ 10 psi for 10 seconds. Surface morphology of the post-expansion stent was observed by SEM (Phenom Pro Desktop SEM, Phenom-world BV, Eindhoven, The Netherlands).

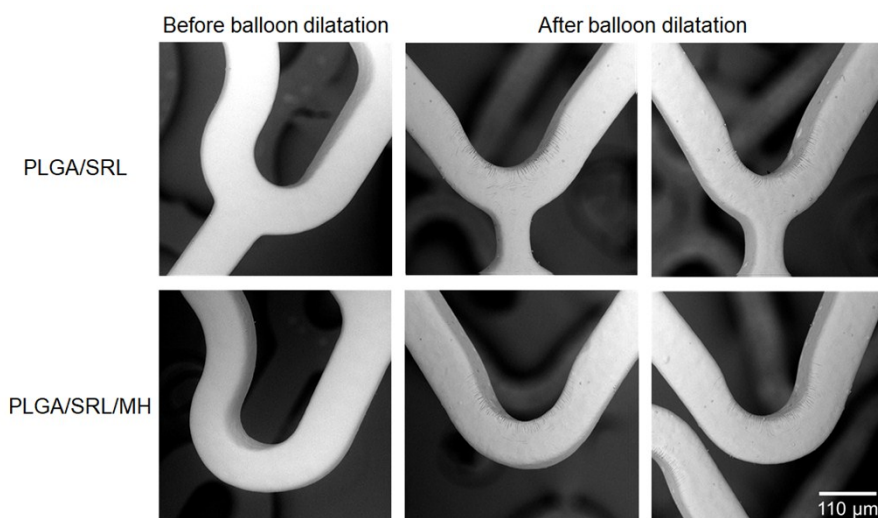


Figure S1. Scanning electron microscopy (SEM) images of surface morphology of PLGA/SRL and PLGA/SRL/MH coating layer before and after balloon dilatation (scale bar, 110 μm).

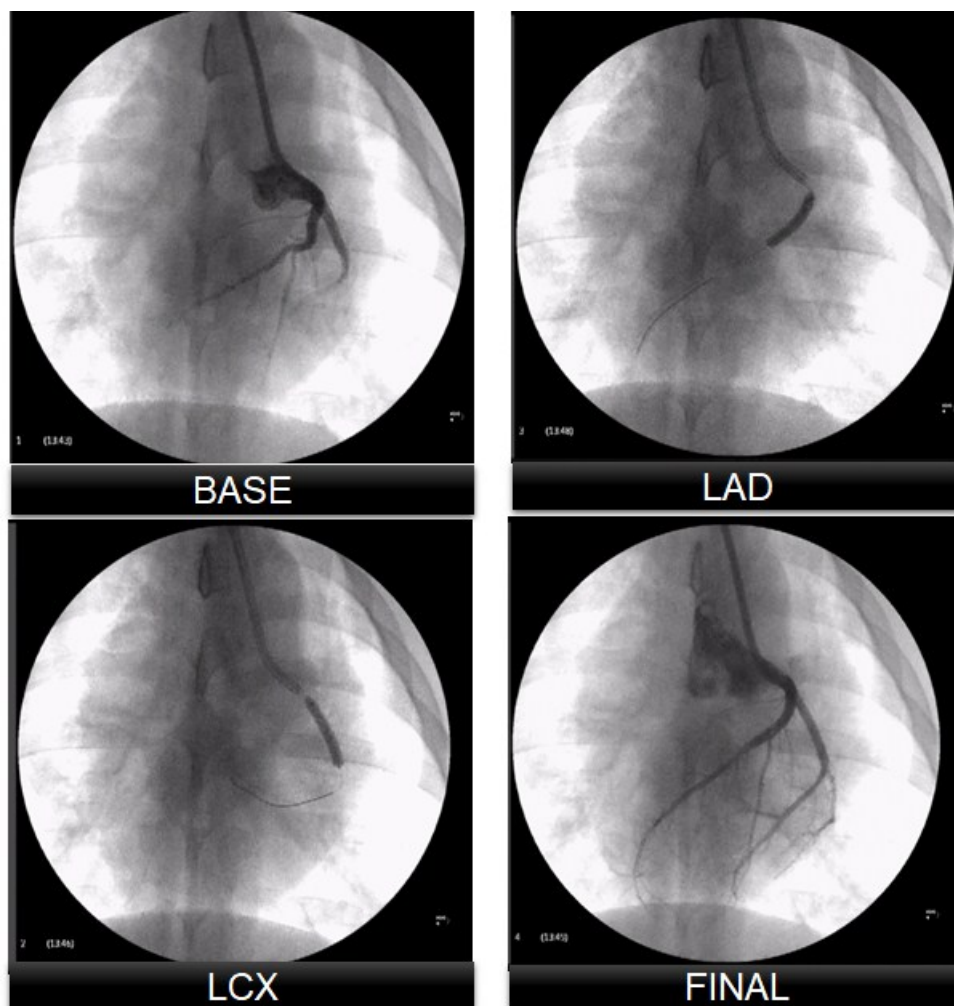


Figure S2. *In vivo* X-ray angiography image in the PLGA/SRL/MH-coated stent insertion procedure in porcine animal model. The stent was successfully imaged in the cardiovascular system when left anterior descending (LAD) and left circumflex coronary artery (LCX) imaging were performed during the stent insertion procedure. Finally, the vessel was successfully opened after the stenting procedure.