Silica-Coated Magnetic Palladium Nanocatalyst for Suzuki-Miyaura Cross-Coupling

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**Supporting information**

***Chemicals***

All chemicals and solvents were procured from Merck/Sigma-Aldrich and used directly, however solvents were dried and distilled before use. Ammonium tetrachloropalladate(II) [(NH4)2PdCl4] was obtained from Aldrich Chemical Industries, Ltd. The 1H NMR (500 MHz), 13C NMR (125 MHz) spectra were recorded using BRUKER-500 spectrometer, University Malaysia Pahang (UMP) The 1H spectra of 1,10-phenanthroline-2,9-dicarboxaldehyde was mearusred using Magritek-Benchtop NMR Spectrometer 60 MHz, Bernal Institute, University of Limerick. 1H NMR chemical shifts were reported relative to tetramethylsilane (TMS, 0.00 ppm). The 13C NMR chemical shifts were reported relative to CDCl3 (77.0 ppm). The ICP-AES analysis was carried out on Shimadzu ICPS-8100 equipment, UMP. The FTIR spectra were recorded by Perkin Elmer (670) spectrometer, UMP. XPS spectra were measured with a Scanning X-ray Microprobe PHI Quantera II, MIMOS, Kuala Lumpur. FE-SEM was measured with JSM- 7800F, UMP. TEM images were measured with HT-7700, Hi-Tech Instruments SDN BHD, Puchong. TLC plates were obtained Merck silica gel 60 F254. Wakogel C-200 silica gel was used for column chromatography.

























































