

Supporting Information - 1

Time dependent change in the UV-visible behaviour of the Newman's silver reagent (Ag_n).

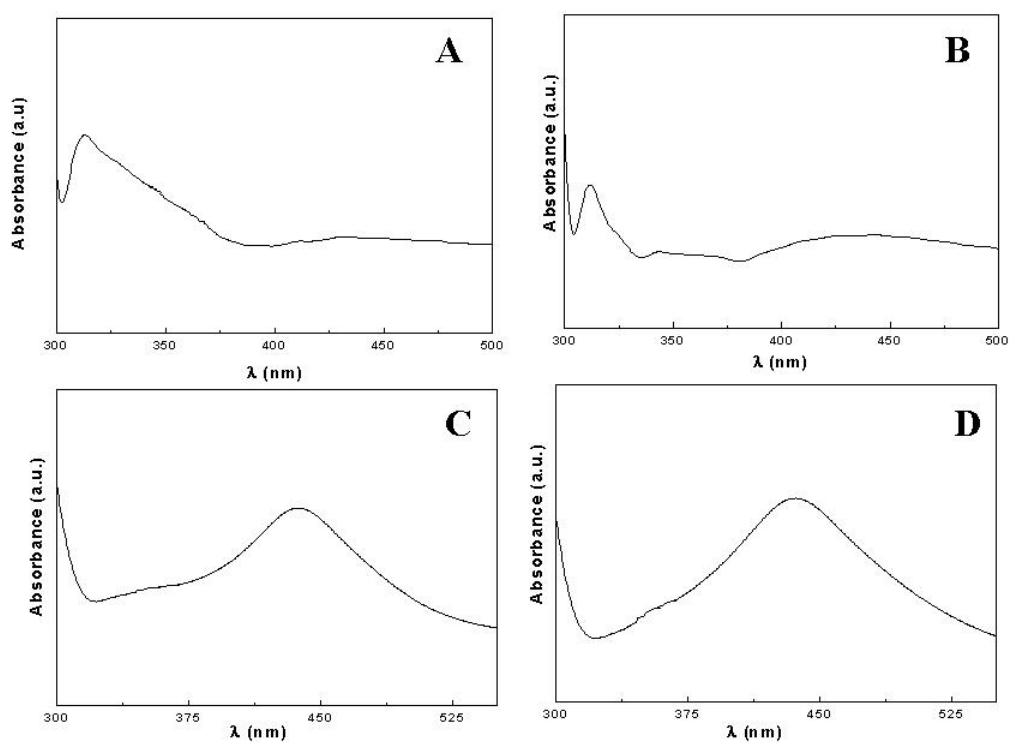
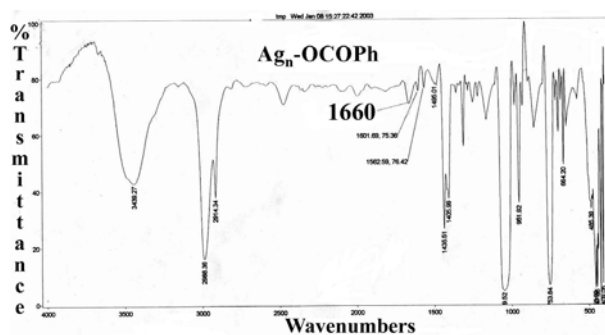
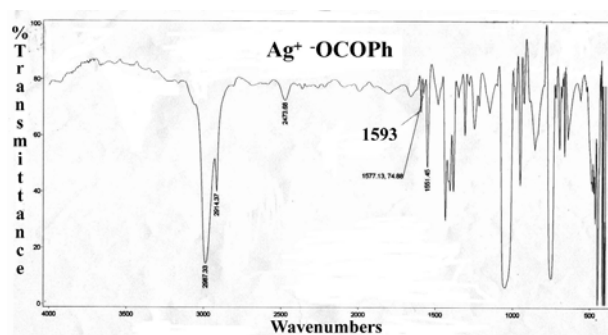
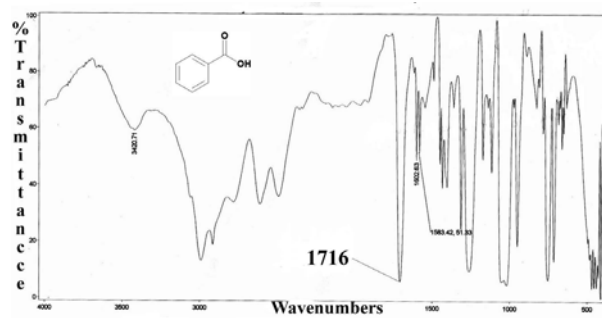


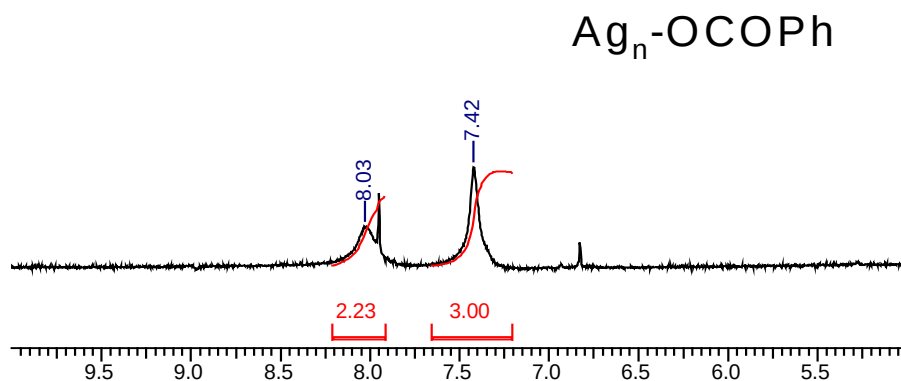
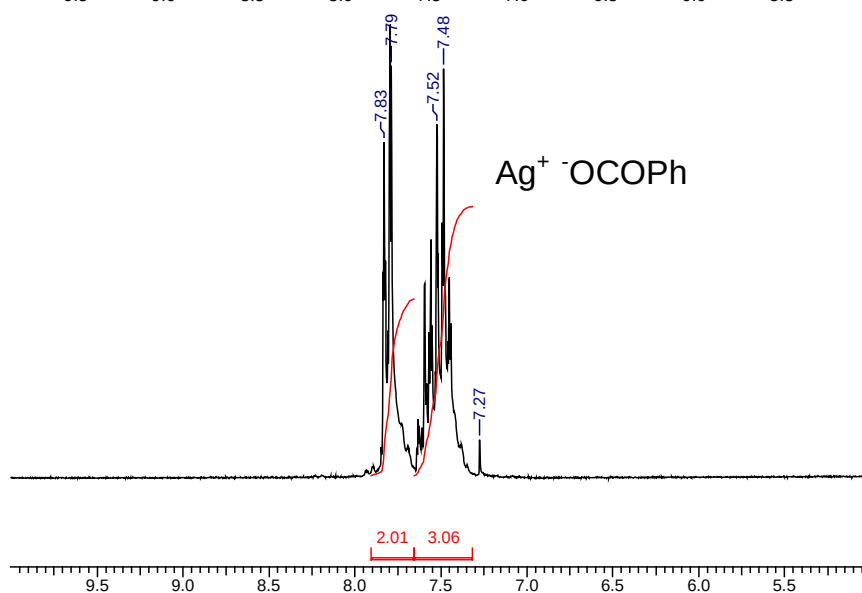
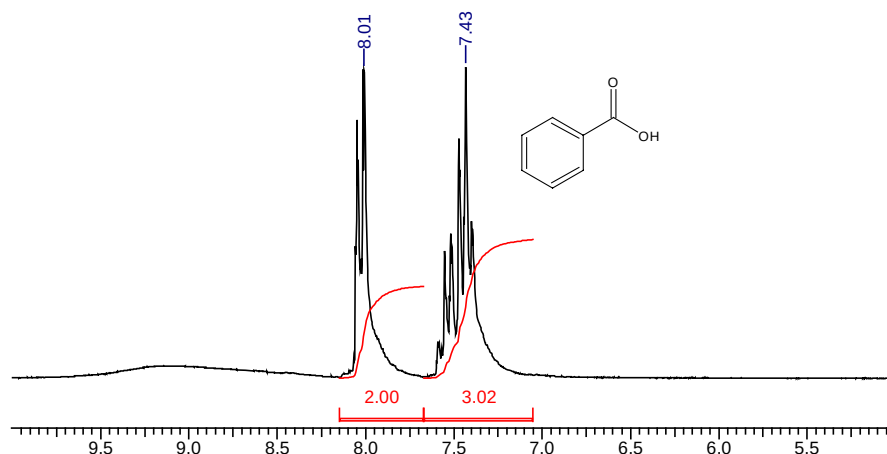
Figure 1: UV-visible spectra of the Newman's silver reagent (Ag_n) in Toluene at different time intervals, (A) 30 min (B) 12 h (C) 24 h (D) seven days.

Supporting Information - 2

FTIR-spectroscopic analysis
Solvent: DMSO+CHCl₃



Supporting Information - 3
¹H NMR Spectroscopic analysis
 Solvent: CDCl₃ + DMSO-d₆
 Internal standard: Tetramethylsilane



Supporting information – 4

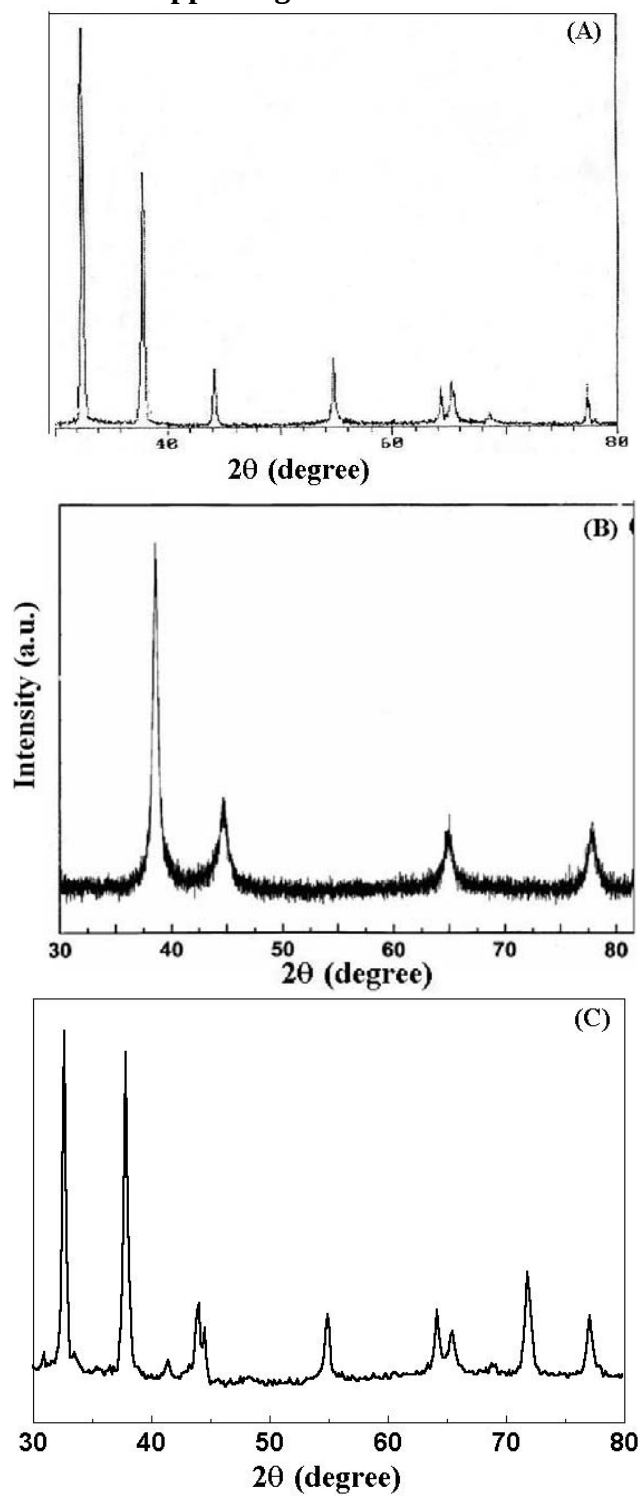


Fig 4: Powder X-ray diffraction pattern for (A) Silver(I) oxide [Cubic], (B) Silver clusters $[Ag_n]$ FCC, (C) Ag-agglomerate formed following an electron transfer between Ag_2O and $Na_2S_2O_3$ respectively.

