

Supporting Information of Dopamine dithiocarbamate functionalized silver nanoparticles as colorimetric sensors for the detection of cobalt ion

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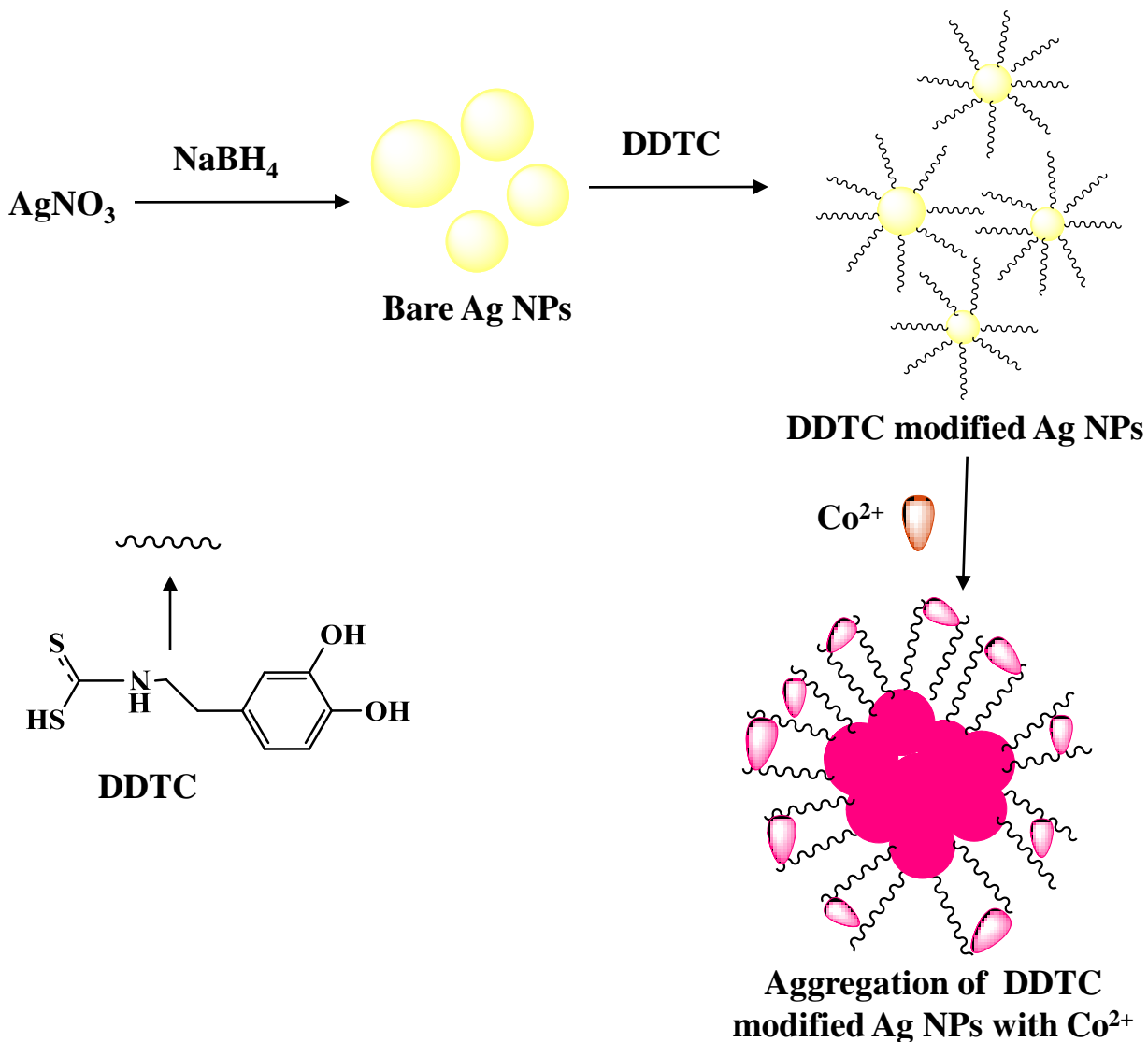


Figure S1. Schematic representation for detection of Co²⁺ by DDTC modified Ag NPs

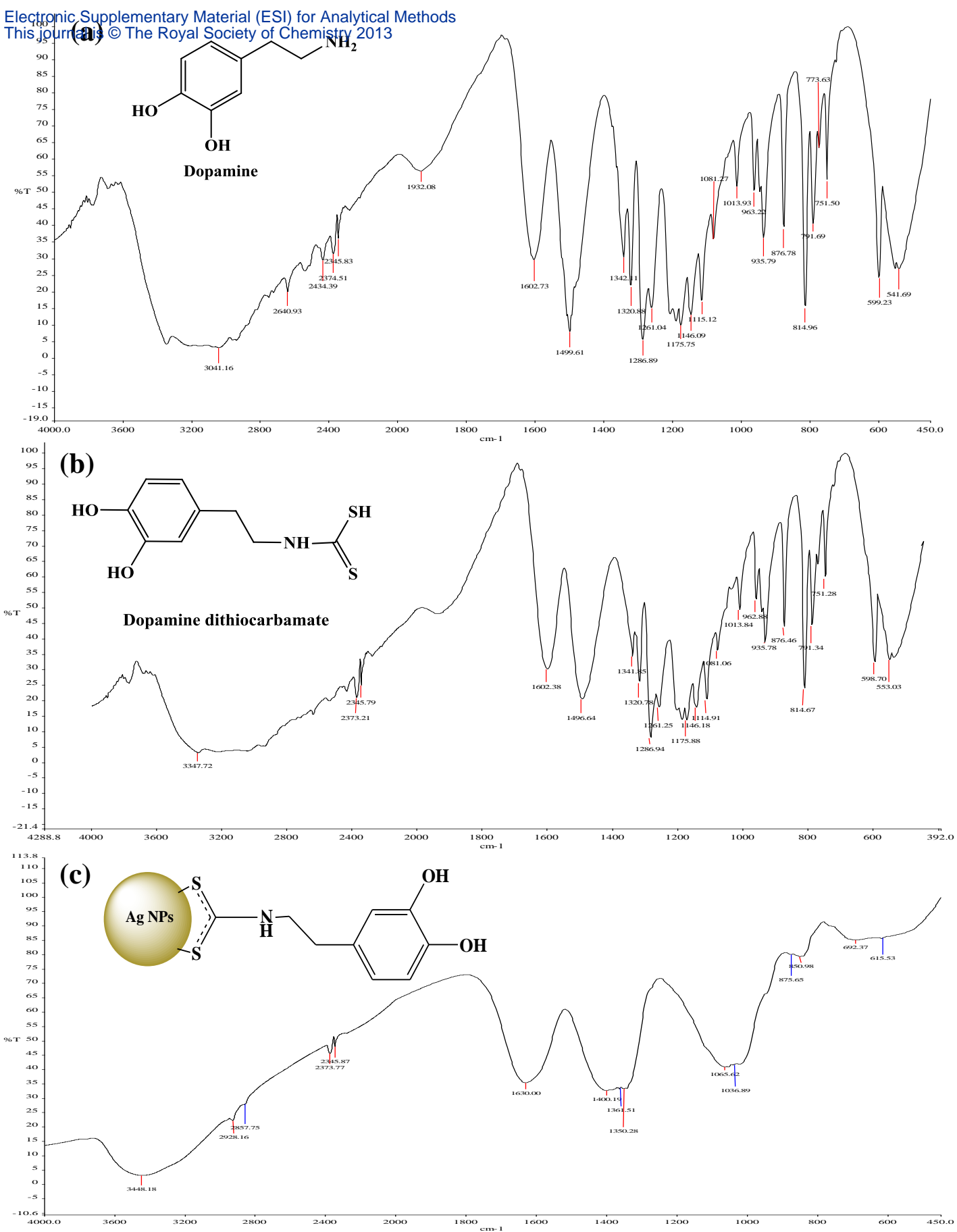
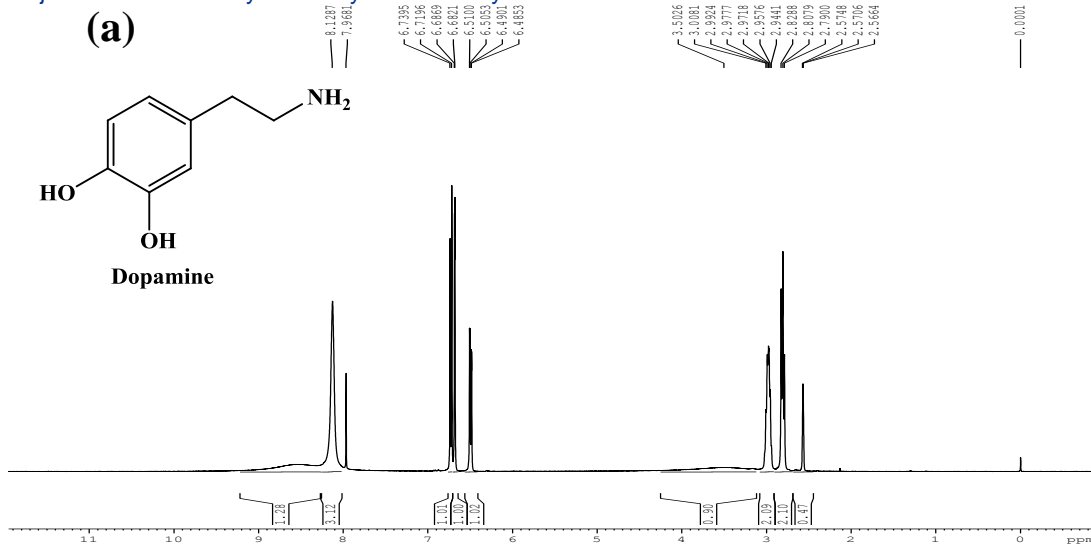


Figure S2. FT IR spectra of (a) pure dopamine (b) dopamine dithiocarbamate and (c) DDTC-Ag NPs.

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 DS 2
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 FIDRES 0.18339 Hz
 AQ 2.7263477 sec
 RG 62
 EC 180.6
 DE 41.600 usec
 TE 297.2 K
 D1 1.00000000 sec
 TDO 1

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 PL1 -3.00 dB
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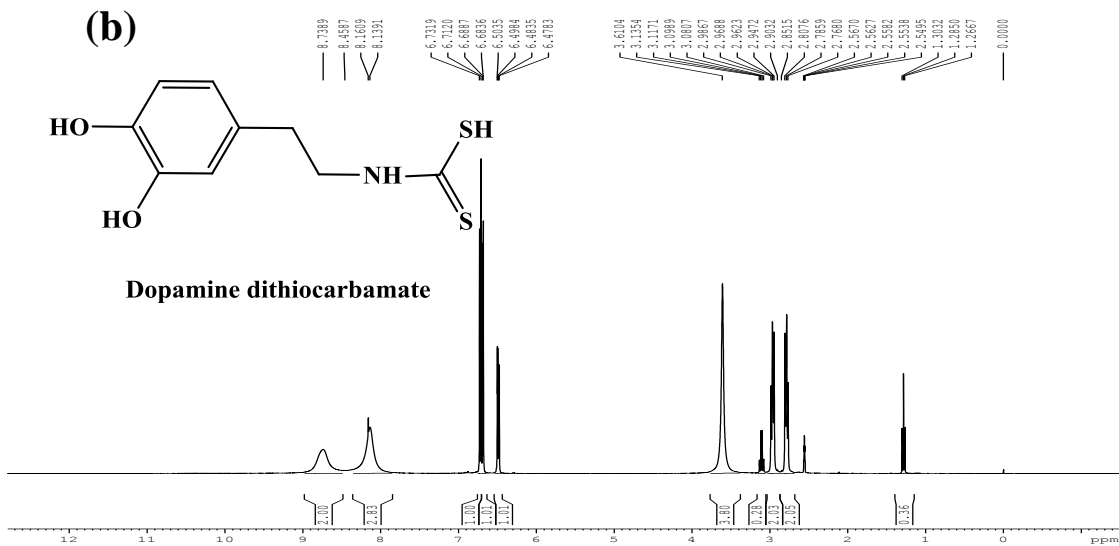
avtar saifpu@yahoo.co.in

BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh

Current Data Parameters
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 TDO 1

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SN-2



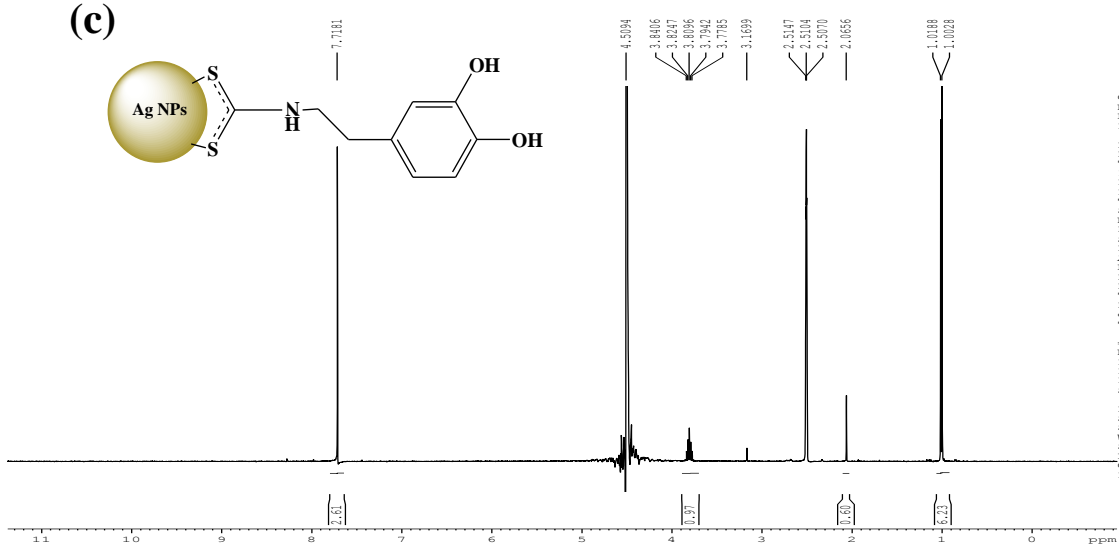
avtar saifpu@yahoo.co.in

BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh

Current Data Parameters
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 PROCNO 1
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 DS 2
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 FIDRES 0.366798 Hz
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 TE 296.3 K
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 F2 - Processing parameters
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 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

SN



avtar saifpu@yahoo.co.in

Figure S3. ¹H NMR spectra of (a) pure dopamine (b) dopamine dithiocarbamate and (c) DDTc modified Ag NPs

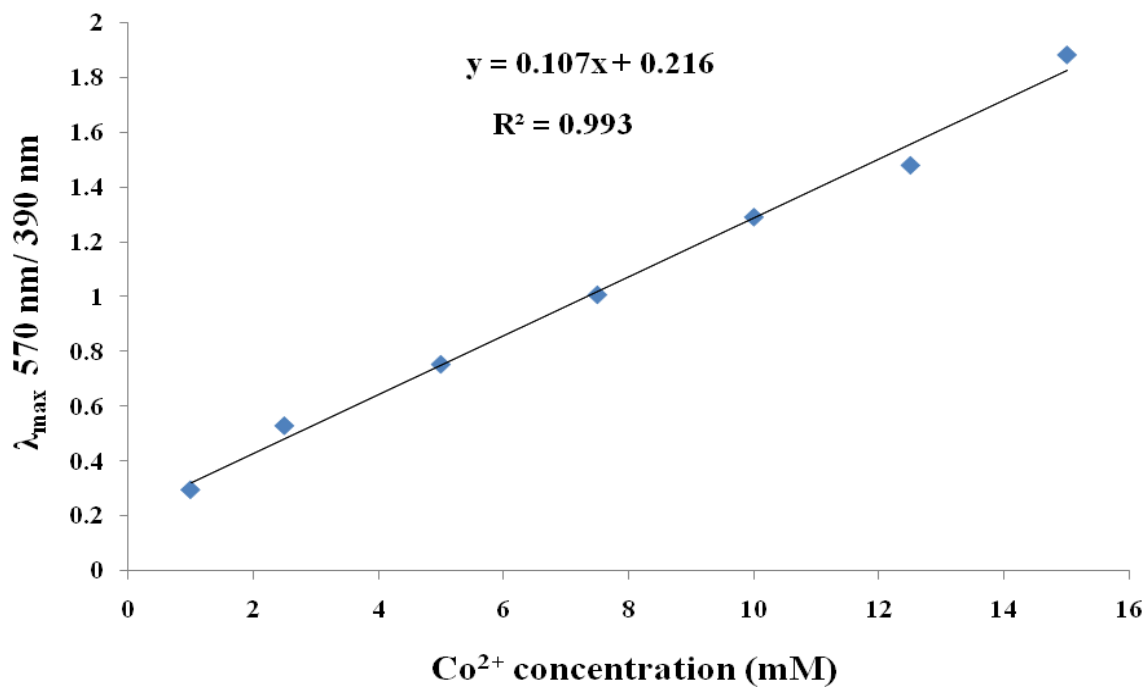


Figure S4. Calibration graph for the quantification of Co²⁺ by using DDTC-Ag NPs as sensors