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Supporting Information

A Rapid Synthesis of Intrinsic Green Fluorescent Poly(pyrogallol) Derived Carbon Dots for Amoxicillin Drug Sensor in Clinical Samples

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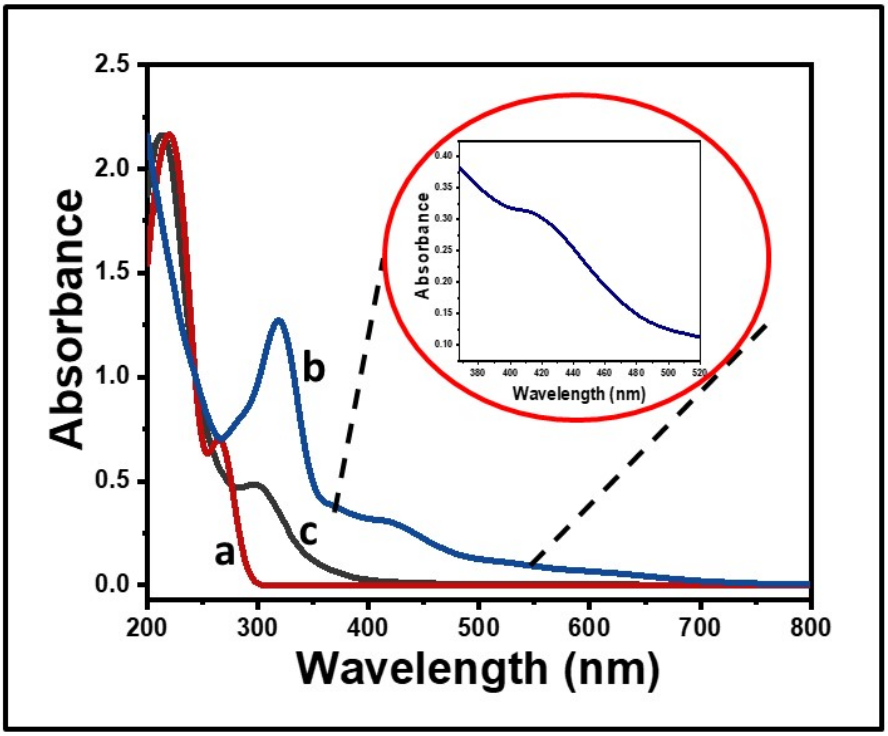

Fig. S1 UV Vis Spectra of Pyrogallol before (a) after (b) base treatment, (c) PC dots.

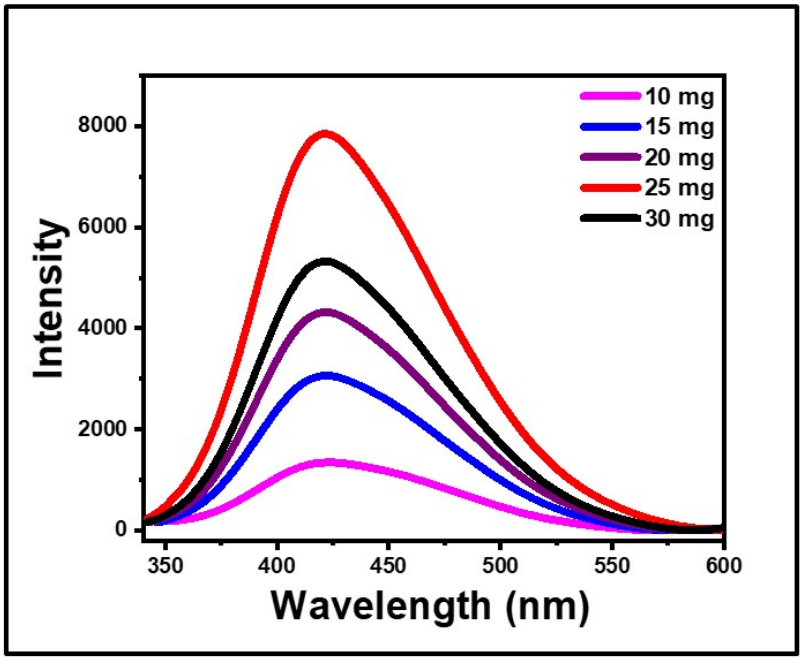

Fig. S2 The effect of NaOH concentration on the synthesis of PC dots.

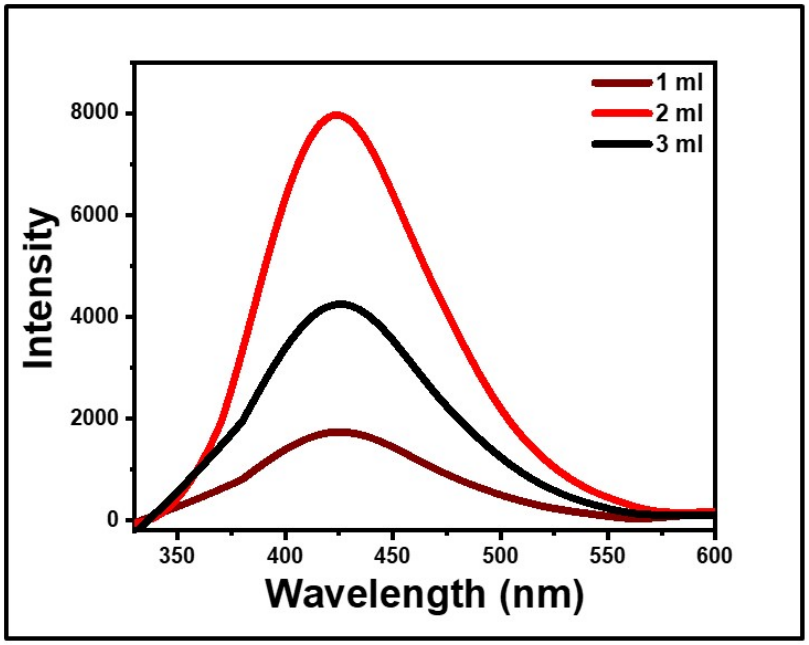

Fig. S3 The effect of Volume of H_2O_2 concentration the synthesis of PC dots.

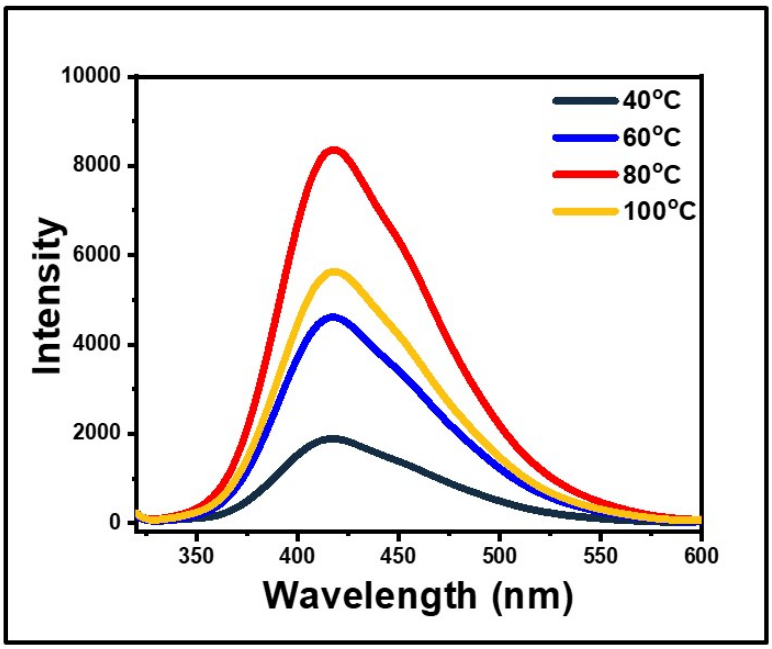

Fig. S4 The effect of temperature on the synthesis of PC dots.

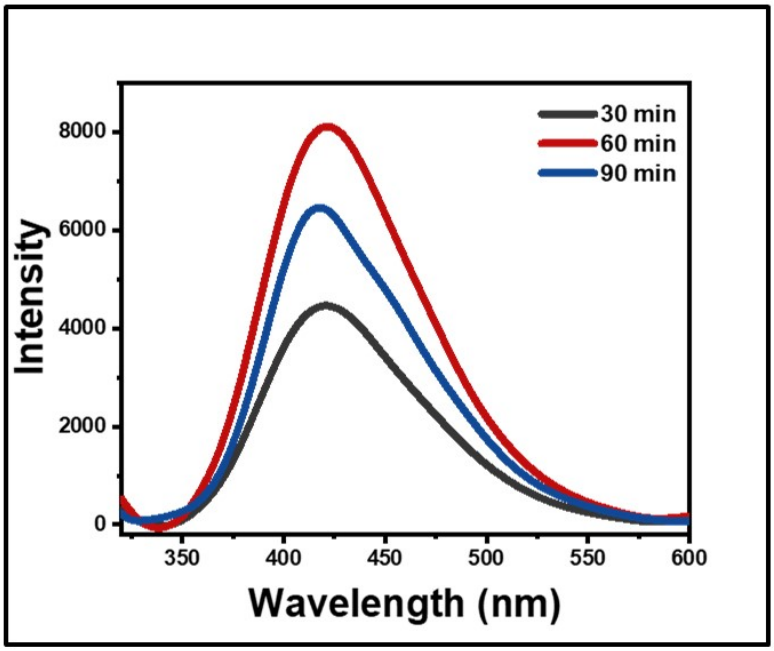

Fig. S5 The effect time on the synthesis of PC dots.

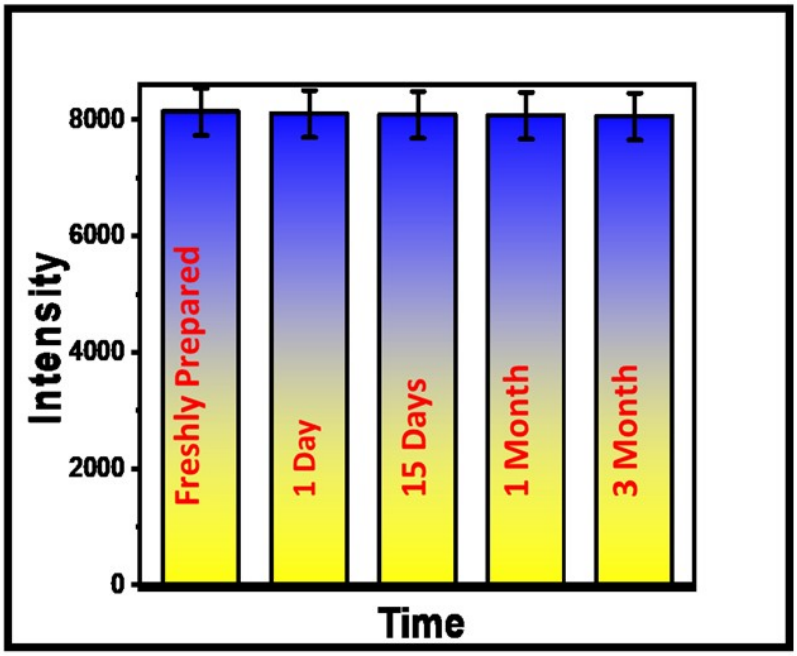

Fig. S6a The stability of PC dots: Intensity Vs Time.

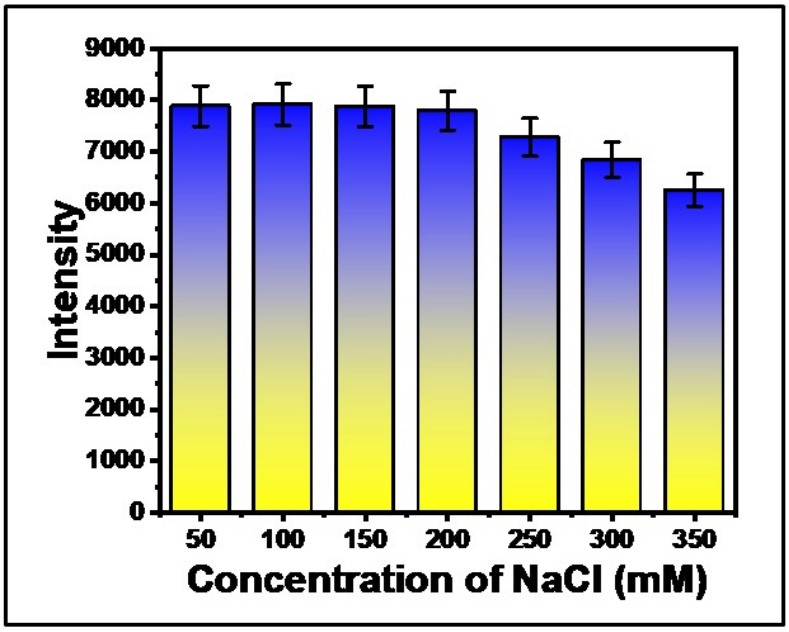

Fig. S6b The ionic strength study of PC dots: concentration of NaCl Vs Intensity.

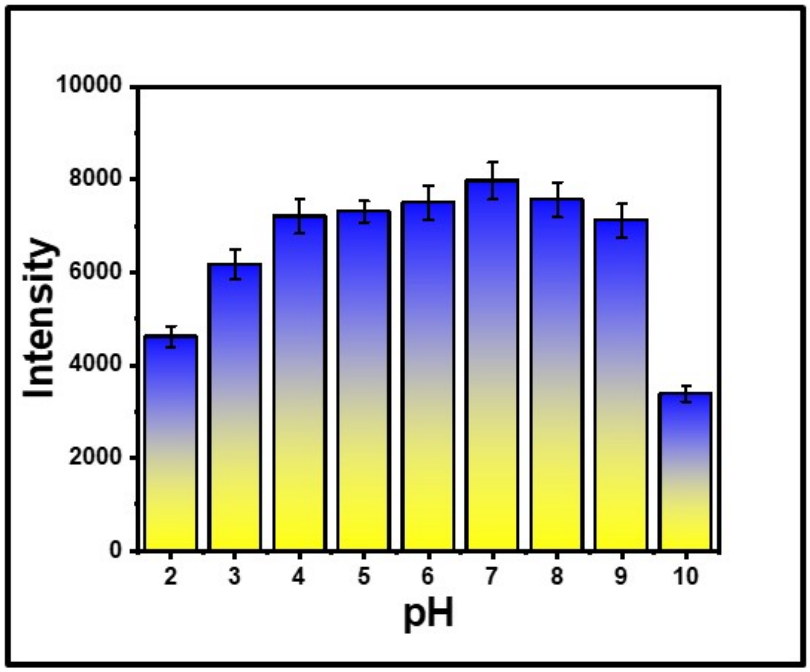

Fig. S6c The Effect of pH: Fluorescence intensity of PC dots Vs pH.

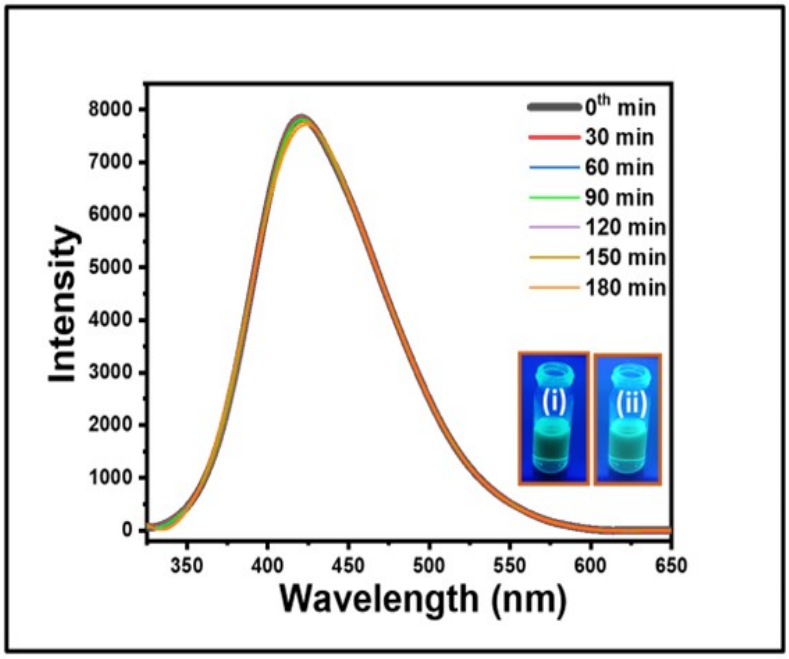

Fig. S6d The fluorescence emission study of PC dots at various irradiation time *Inset:* Photograph of PC dots (i) before and (ii) after 180 min uv irradiation.

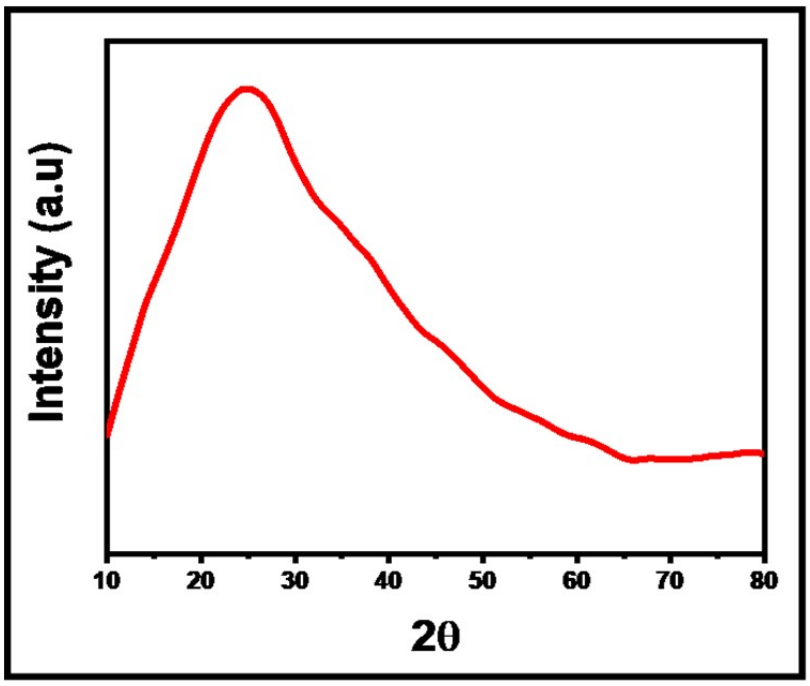

Fig. S7 XRD pattern of PC dots.

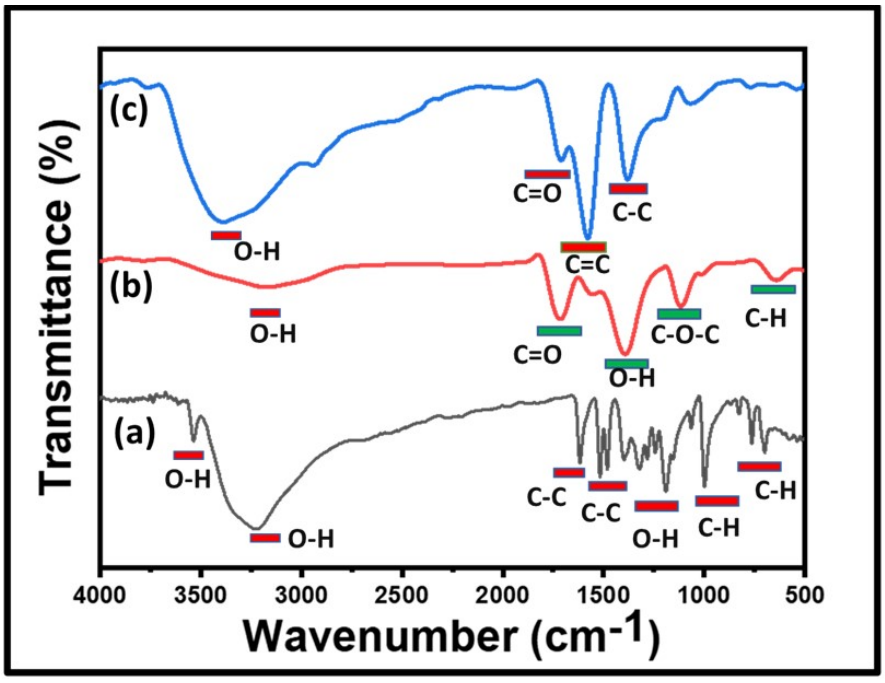

Fig. S8 The FT-IR Spectra of (a) Pyrogallol (b) Polymerized Pyrogallol after treatment with base (c) PC dots.

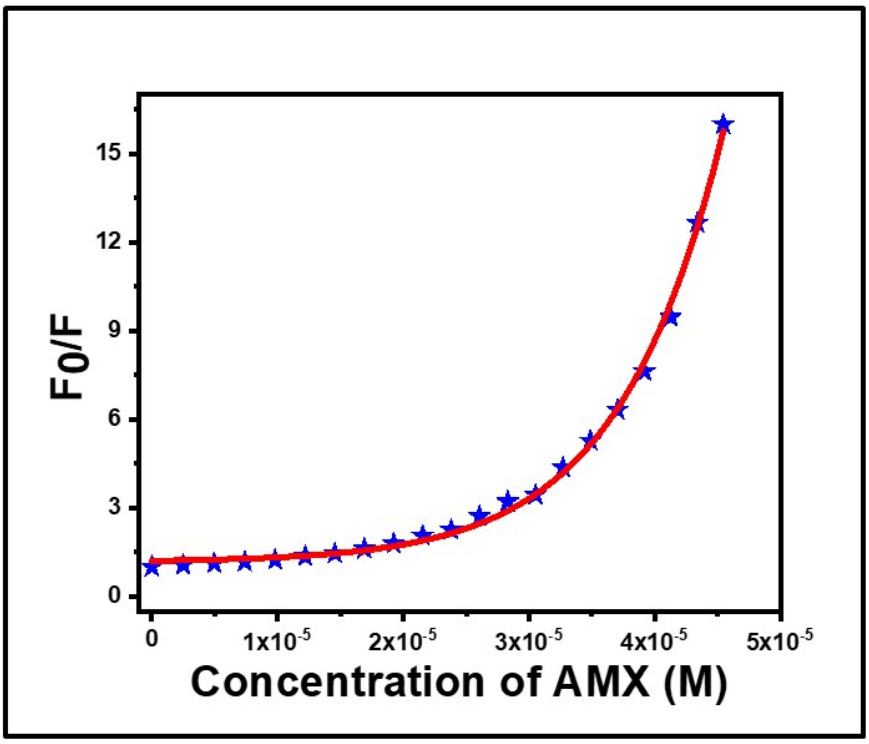

Fig. S9 The Plot of Quenching Constant of AMX.

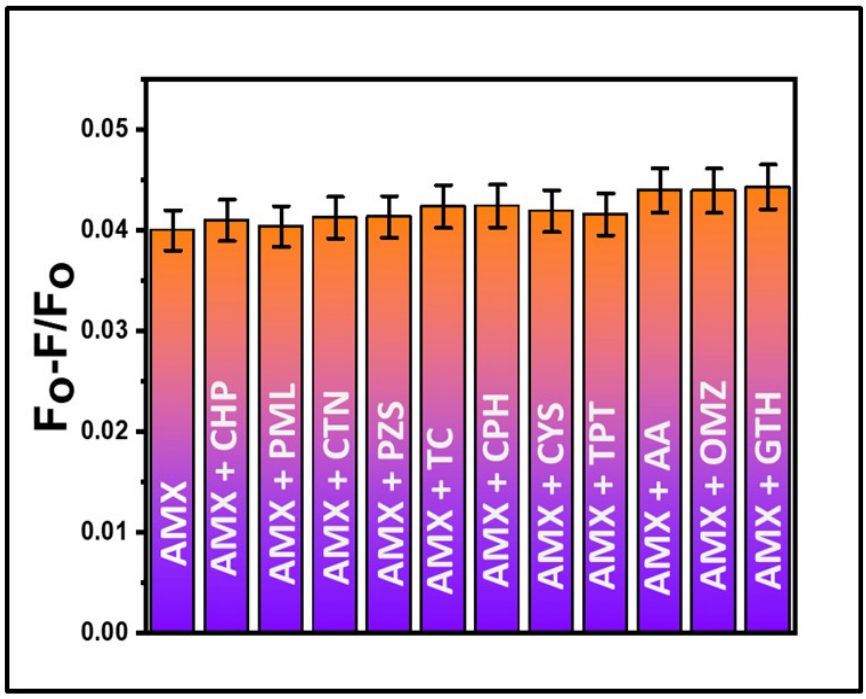

Fig. S10 Competitive assay in the presence 2.49 X 10^{-6} M AMX Vs common interferences such as chloramphenicol (CHP), paracetamol (PML), creatinine (CTN), pantoprazole sodium (PZS), tetracycline (TC), cephalexin hydrate (CPH), cystine (CYS), topiramate (TPT), ascorbic acid (AA), omeprazole (OMZ), glutathione (GTH) interferences. with 5 X 10^{-1} M concentration.