

Supplementary Data

This supplementary data is a part of a paper entitled "Microwave-Assisted, Preparation, Characterization, and Biological Activities of Schiff Bases Derived from 4-Aminoantipyrine with Acetylacetone for Some New Rare-Earth Metals".

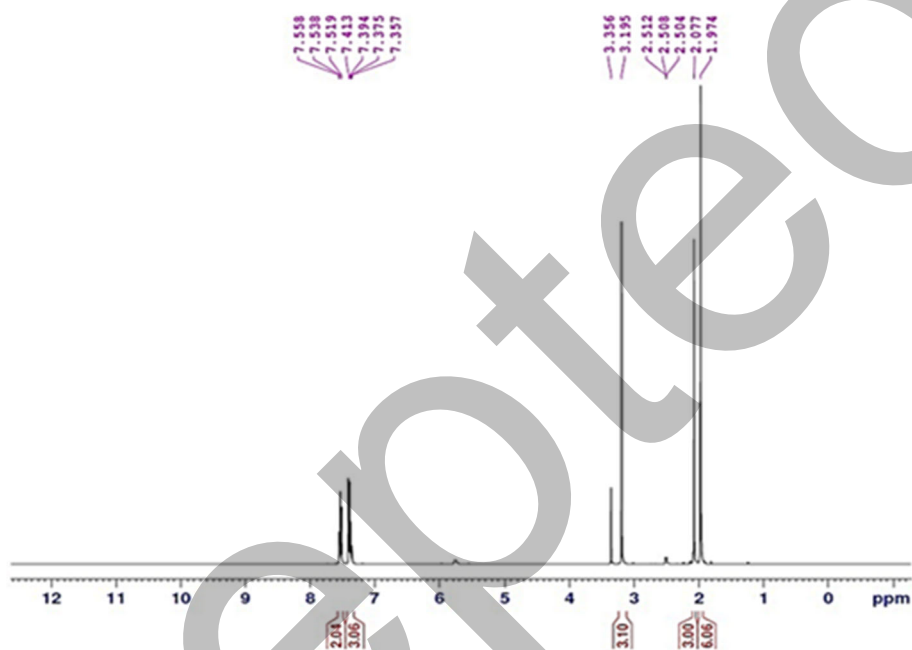


Fig S1. ¹H-NMR of Schiff base ligand

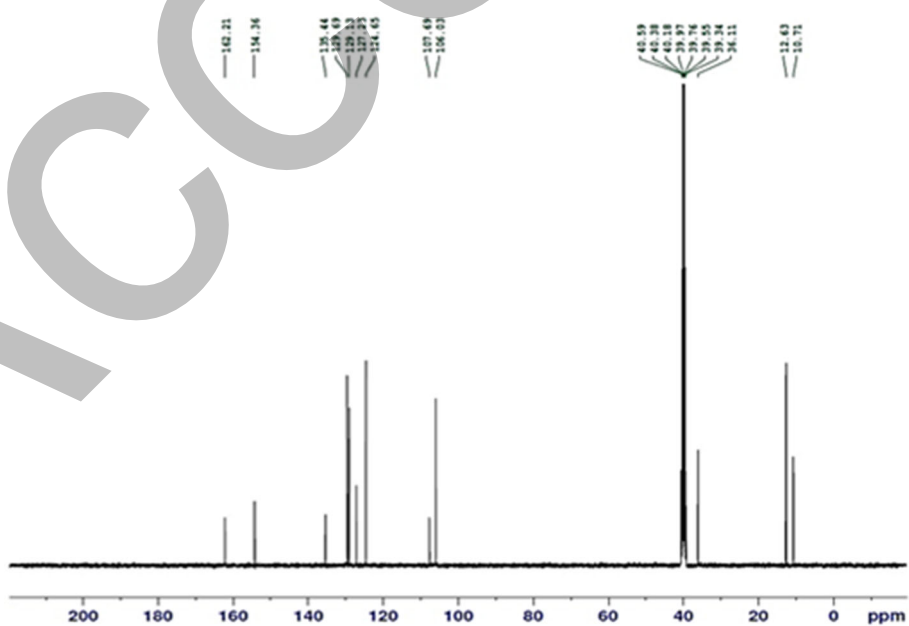


Fig S2. ¹³C-NMR of Schiff base ligand

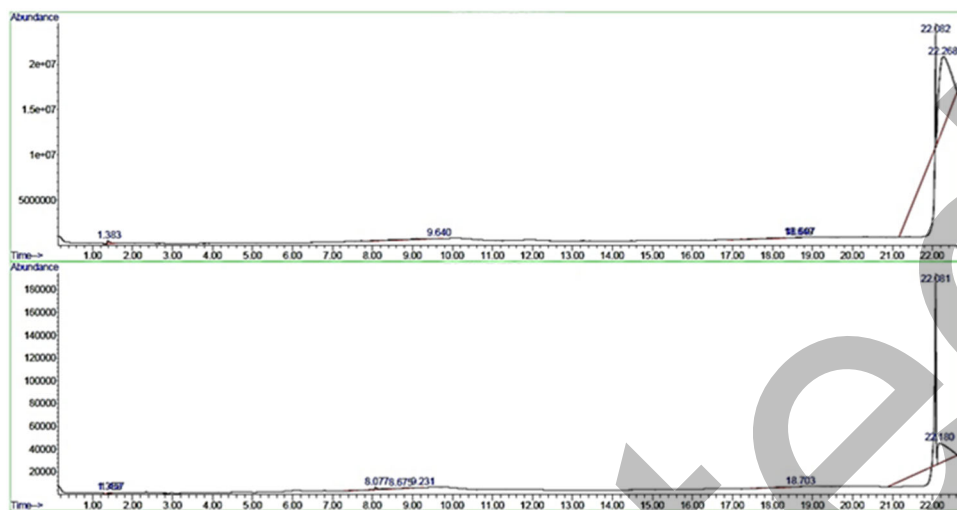
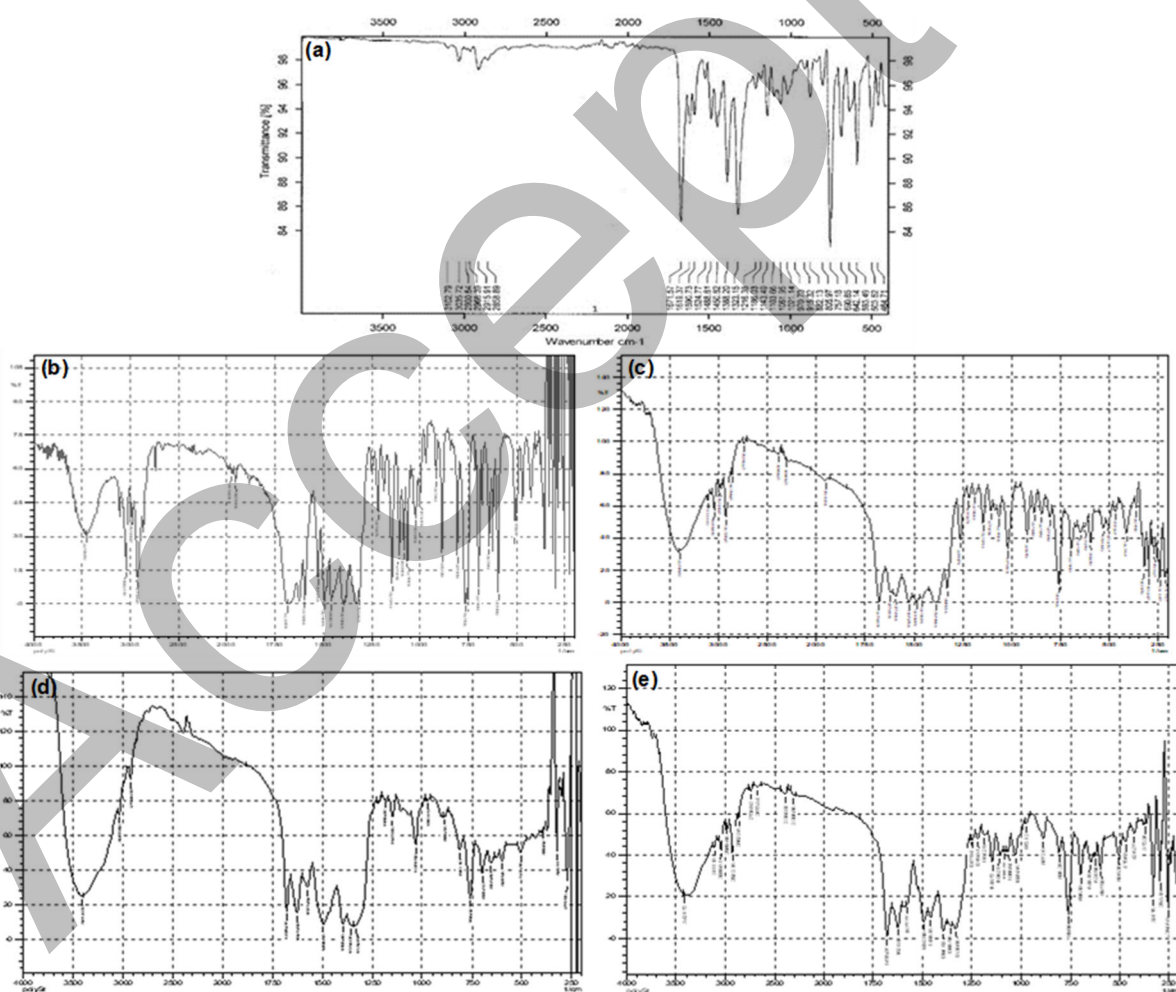


Fig S3. GC-MS spectra of Schiff base ligand



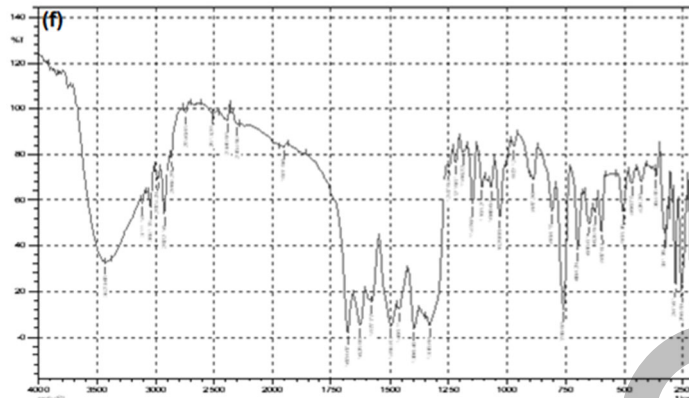


Fig S4. FTIR spectra of (a) azomethine ligand and complexed with (b) La^{3+} , (c) Nd^{3+} , (d) Er^{3+} , (e) Gd^{3+} , and (f) Dy^{3+} ions

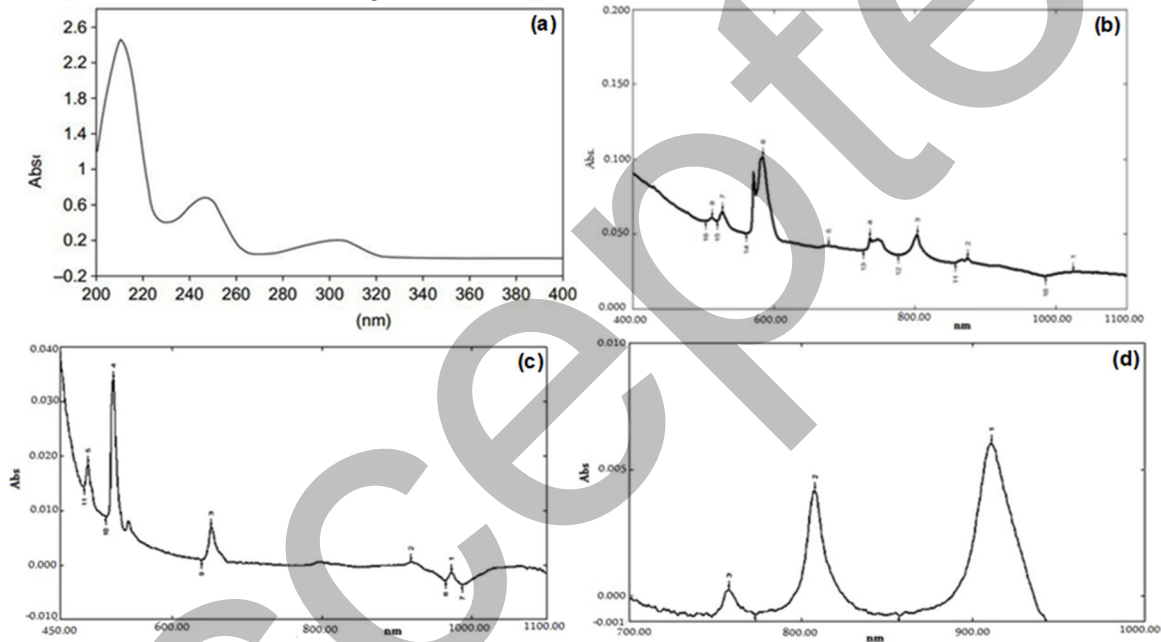
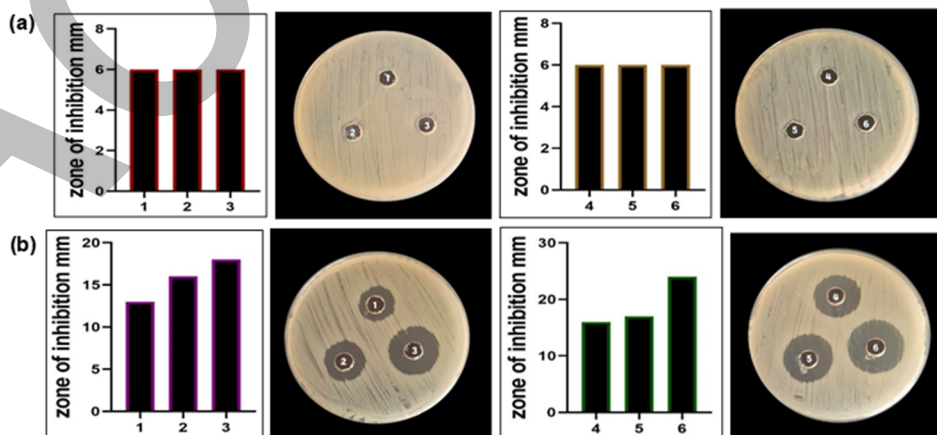


Fig S5. UV-vis spectra of (a) Schiff base ligand and its complexes with (b) Nd^{3+} , (c) Er^{3+} , and (d) Dy^{3+}



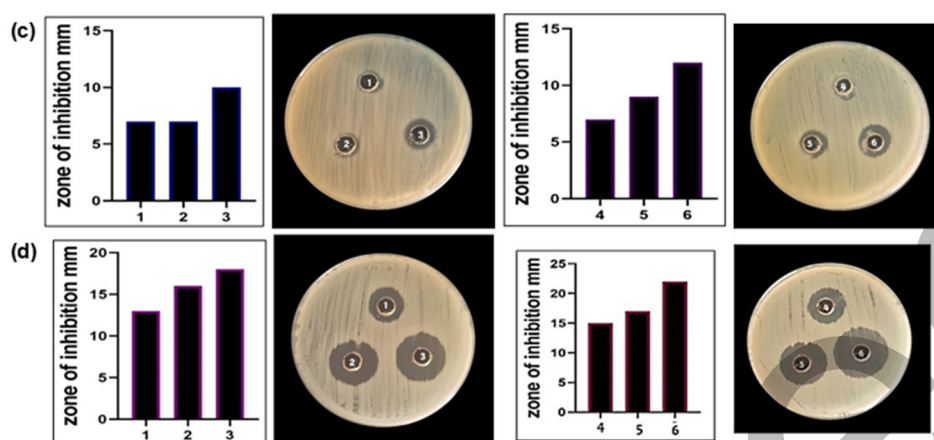


Fig S6. Antibacterial activity of the ligand and its complexes against (a) *E. coli*, (b) *S. aureus*, (c) *K. pneumoniae*, and (d) *S. mutans*. The numbers from 1 to 6 indicate the Schiff base ligand and its complexes with La, Nd, Er, Gd, and Dy, respectively