Electronic Supplementary Material (ESI) for Dalton Transactions.

Supplementary documents

A reversible fluorescent-colorimetric imino-pyridyl bis-Schiff base sensor for expeditious detection of Al^{3+} and HSO_3^- in aqueous media

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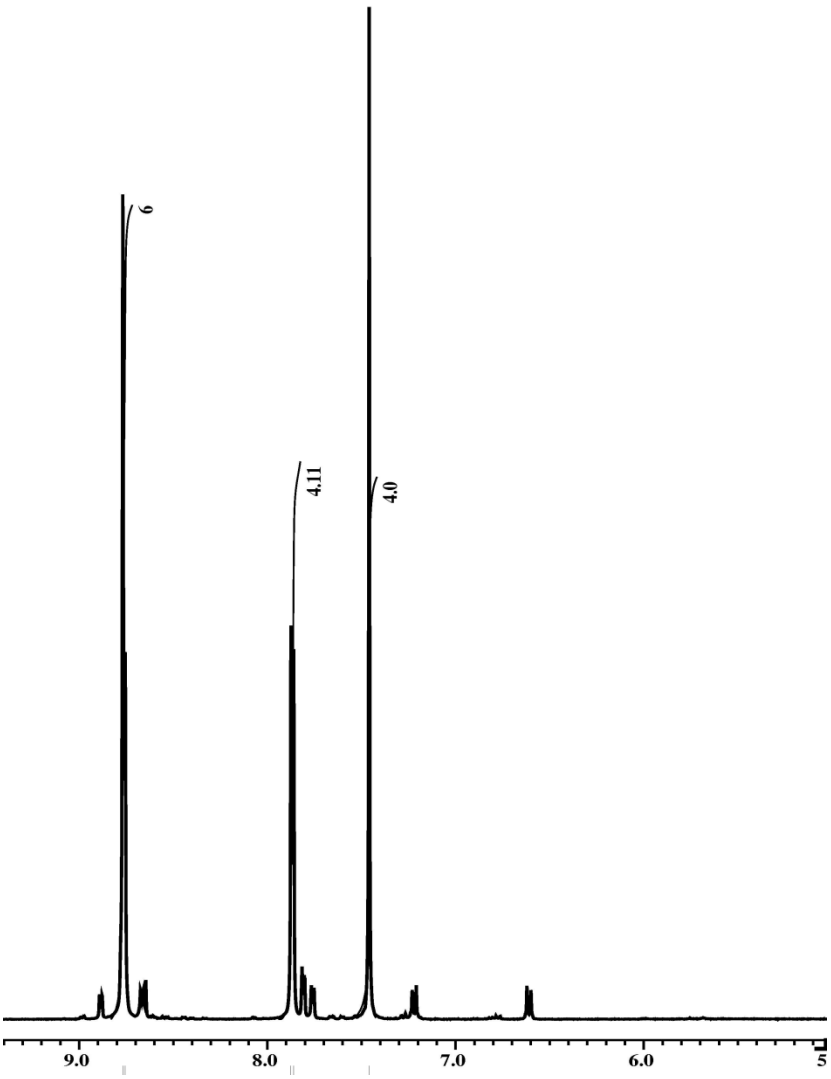

Fig. S1 ^{1}H NMR spectra of **L** in d_6-DMSO

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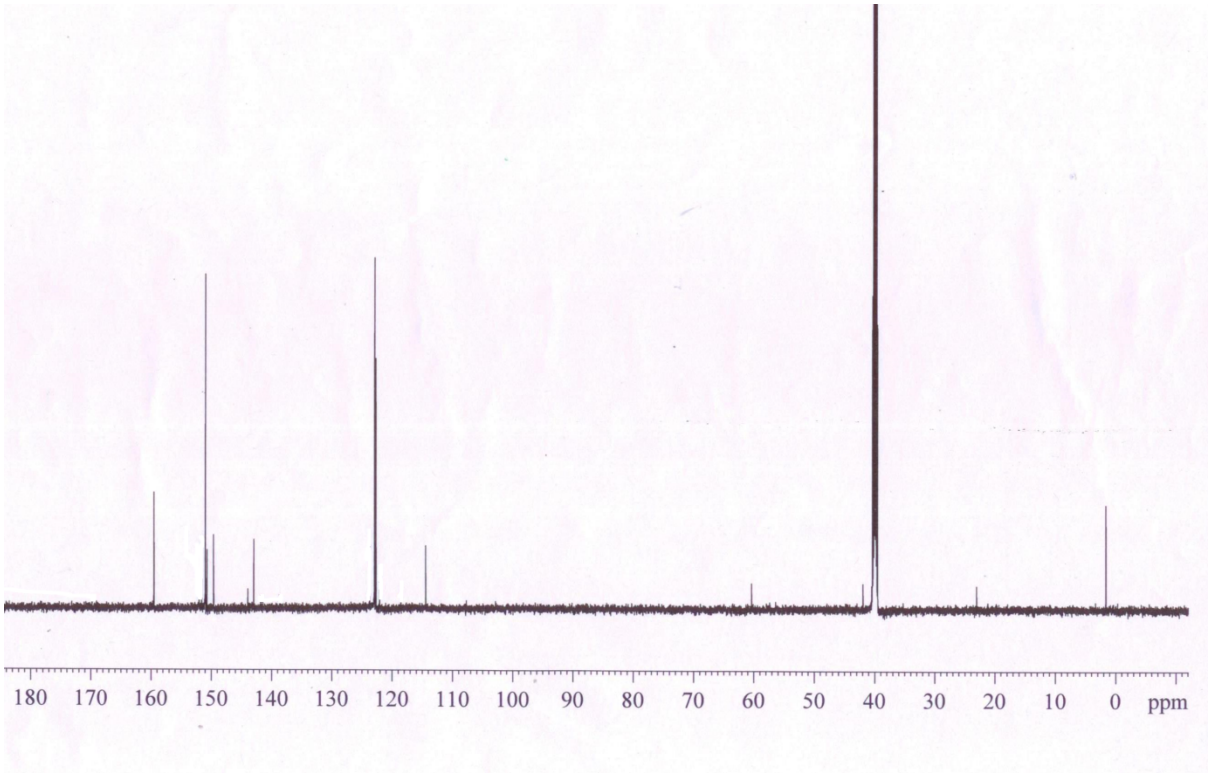

Fig. S2 ^{13}C NMR Spectra of **L** in d_6-DMSO

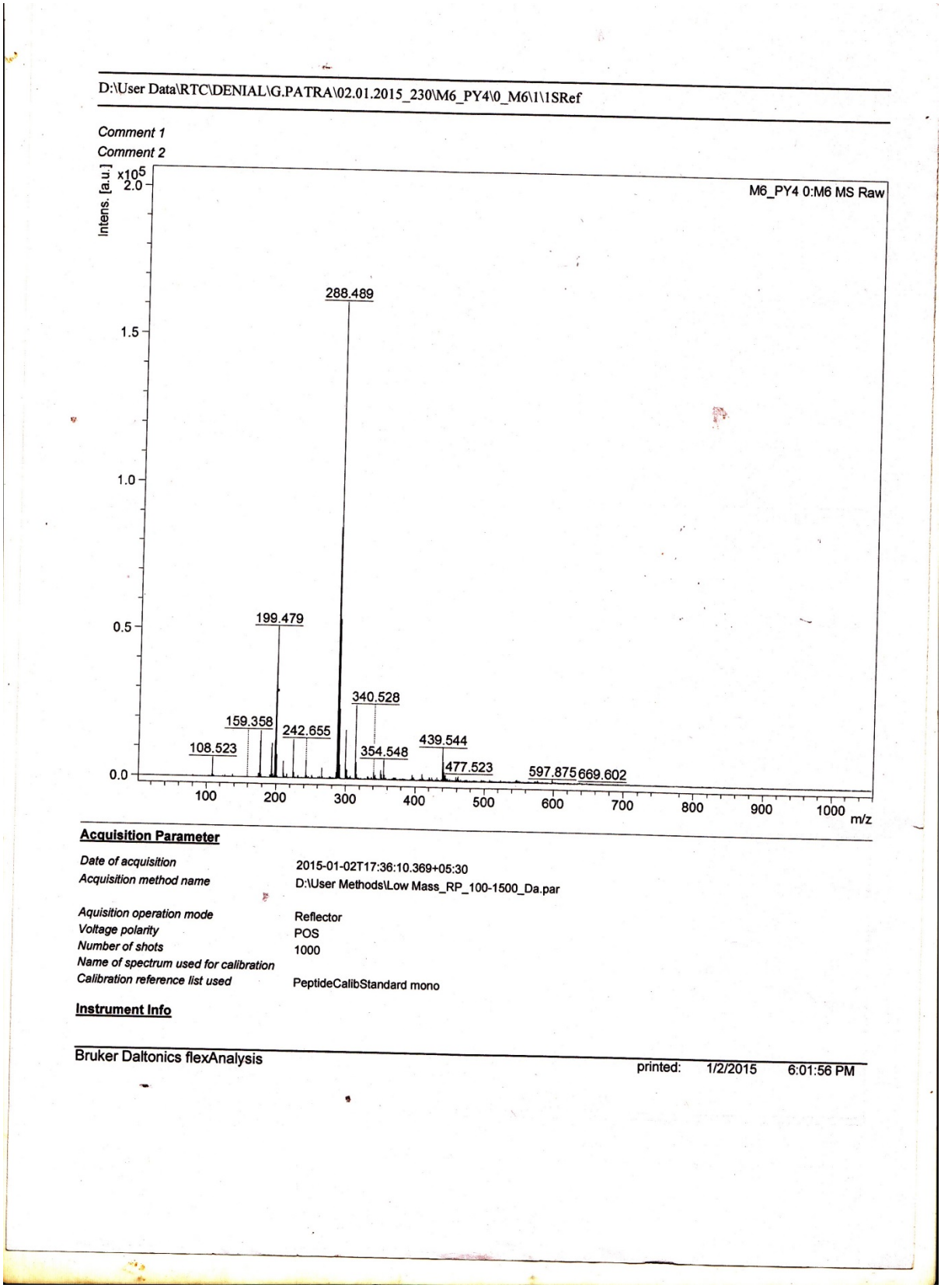

Fig. S3 Mass spectra of **L**

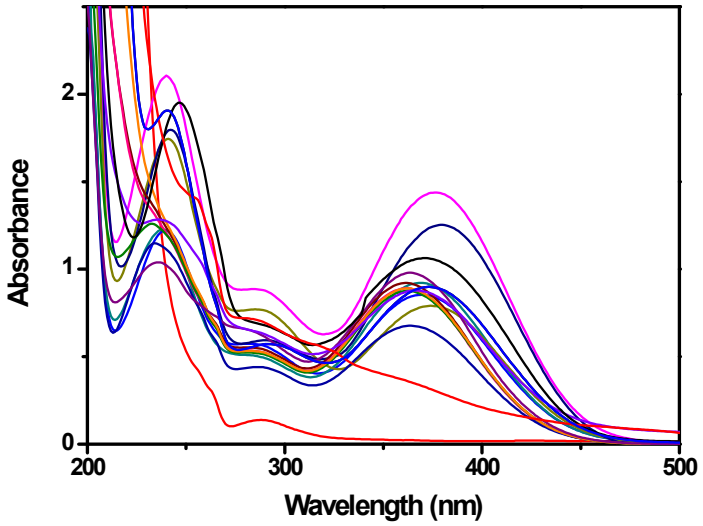

Fig. S4 Absoption spectra of L (10 μM) changes in presence of 10 equiv. of different metal ion

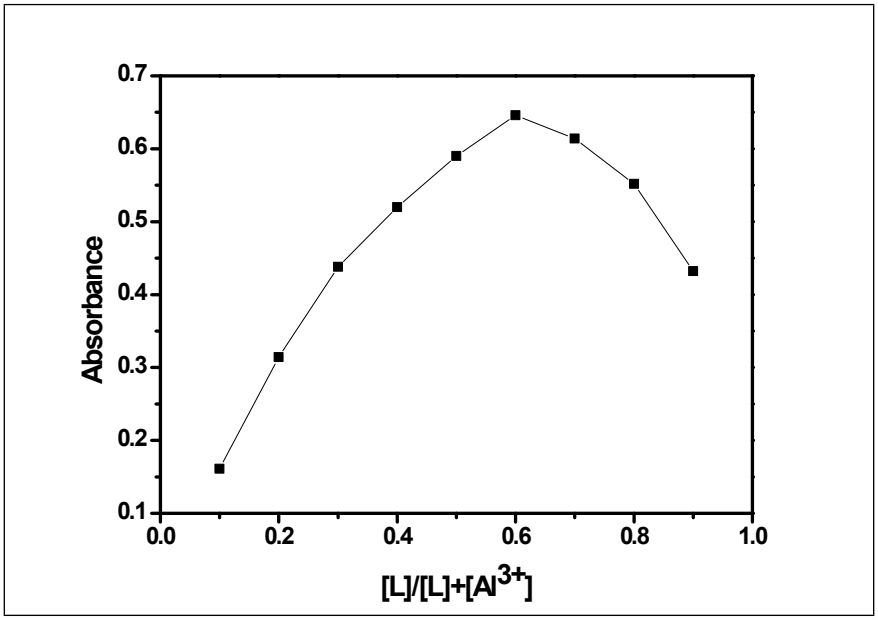

Fig. S5 (a) Job plot for Al^{3+}

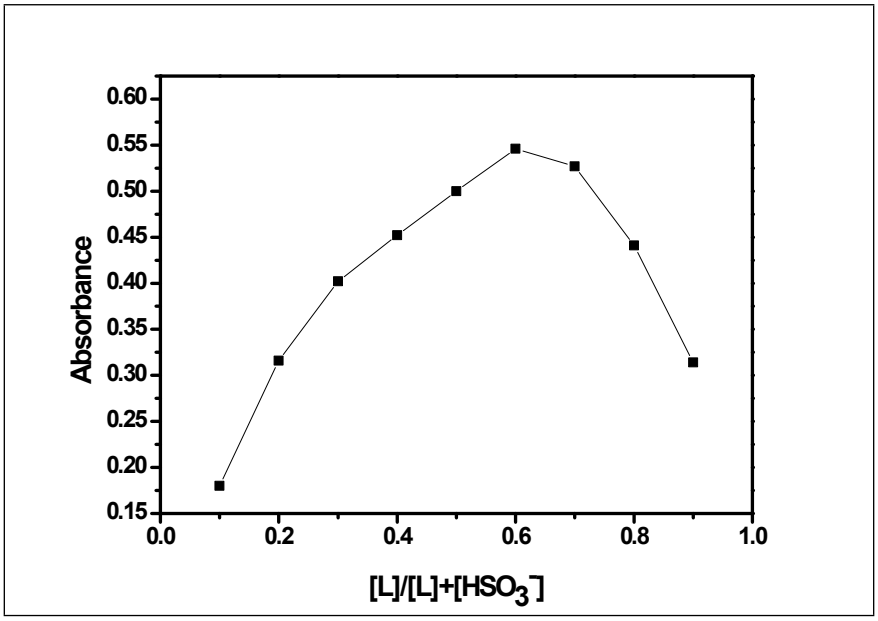

Fig. S5 (b) Job plot for HSO_3^-

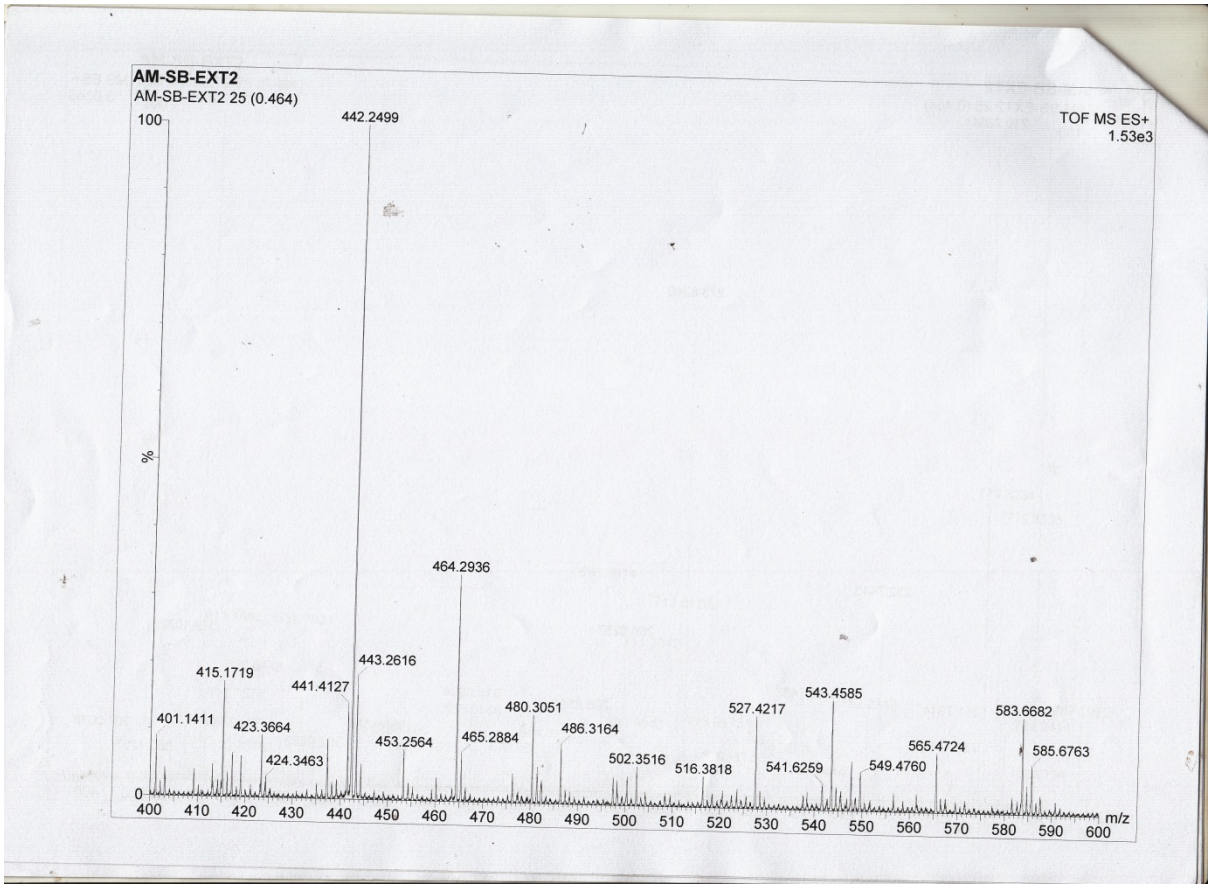

Fig. S6 Mass specta **L**-Al^{3+} complex

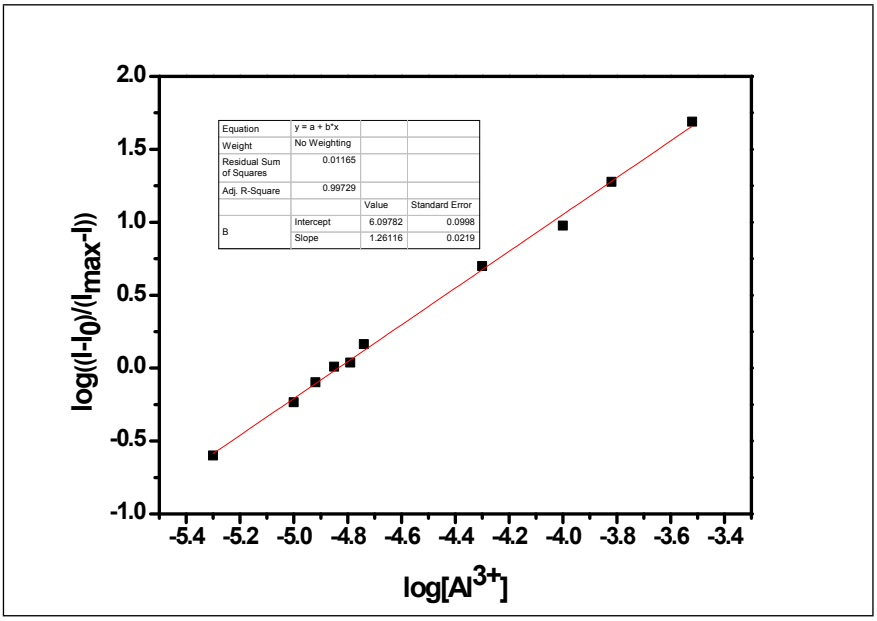

Fig. S7 Hill Plot

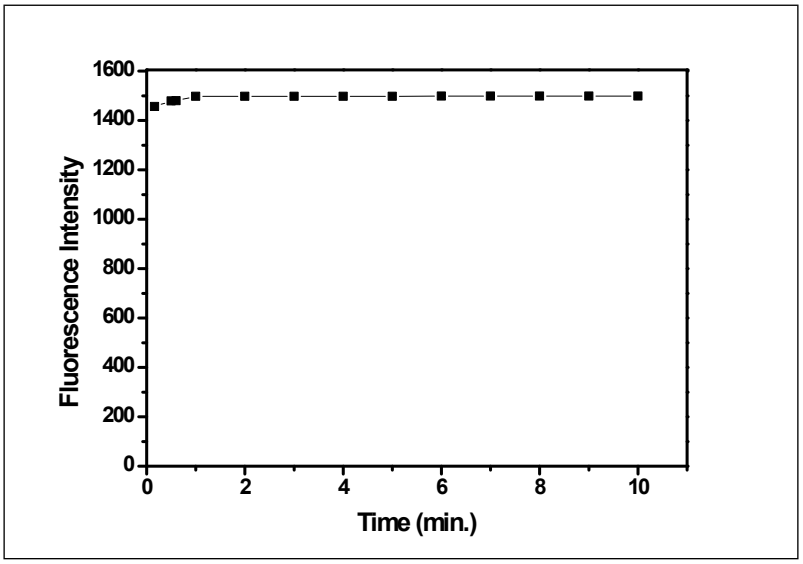

Fig. S8(a) Time evolution for Al^{3+}

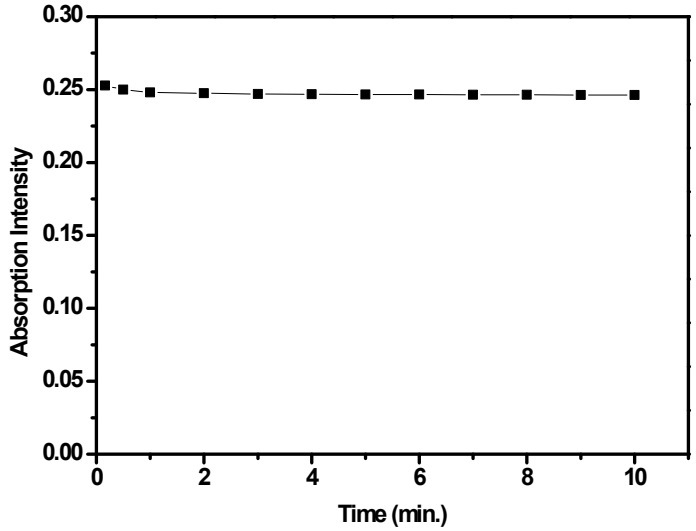

Fig. S8(b) Time evolution for HSO_3^-

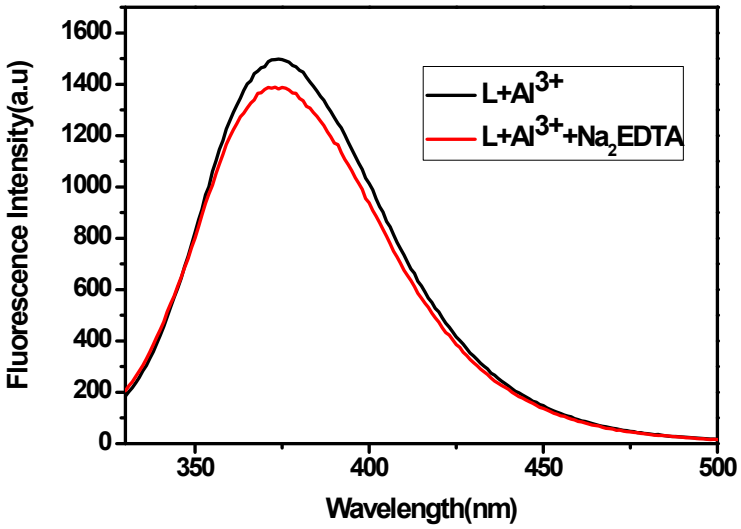

Fig. S9 Fluorescence spectrum of **L**+Al^{3+} and **L**+Al^{3+}+Na_2EDTA.

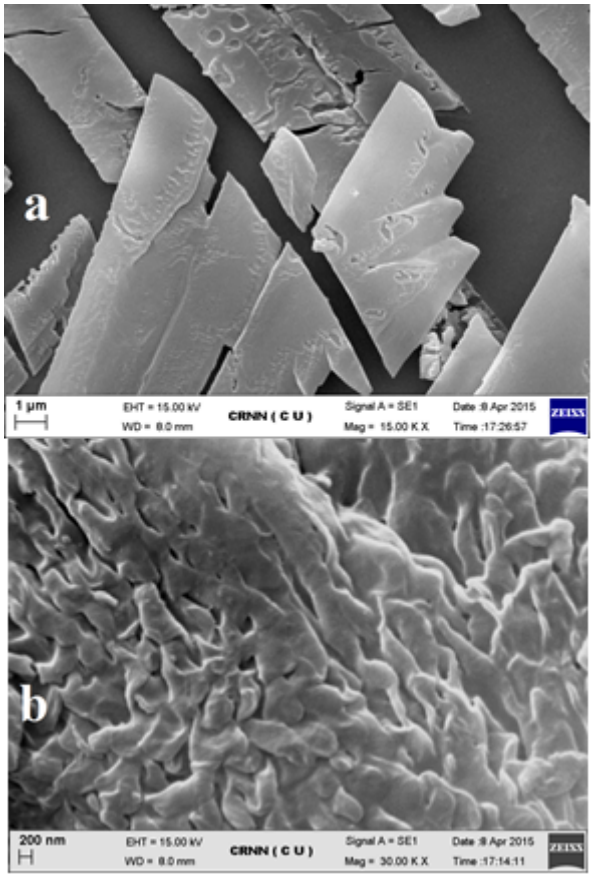

Fig. 10 (a) Monolayer SEM image of **L** (b) SEM image of the **L**-Al^{3+} complex

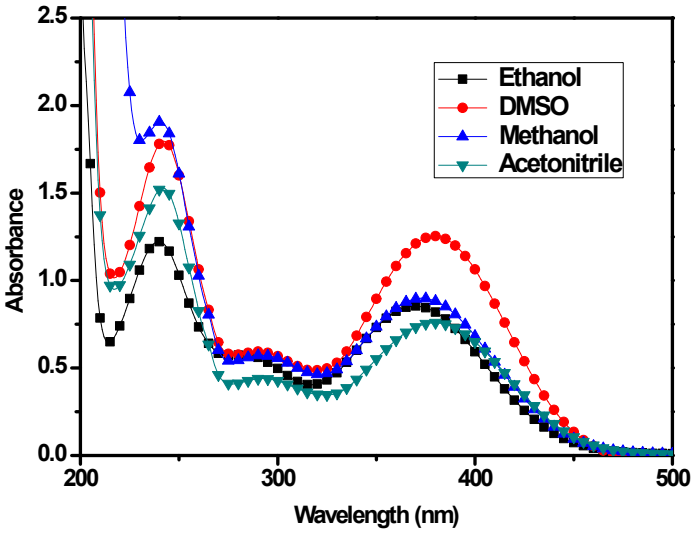

Fig. S11 Absorption behavior of **L** in different solvents