Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2016

## **Electronic Supplementary Information**

## Fluorescent sensor for Al<sup>3+</sup> ion in partially aqueous media using julolidine based probe

**Divya Singhal, Neha Gupta, Ashok Kumar Singh\*** Indian Institute of Technology Roorkee, Roorkee (247667), India

- ESI Fig.S1 IR Spectrum of Chemosensor L.
- ESI Fig.S2 <sup>1</sup>H-NMR Spectrum of Chemosensor L.
- ESI Fig.S3 <sup>13</sup>C-NMR Spectrum of Chemosensor L.
- ESI Fig.S4 UV-Vis absorption and Emission spectra of Chemosensor L.
- ESI Fig.S5 Plot between  $[A-A_0]/[A_{max}-A_0]$  and  $log[Mn^{2+}]$  for the calculation of Limit of Detection[LOD].
- ESI Fig.S6 Emission spectra of chemosensor L with Al<sup>3+</sup> metal ion in different aqueous medium (20%, 40 %, 60 %, 80 %, 100% water).
- ESI Fig.S7 Plot between [I-I<sub>0</sub>]/[I<sub>max</sub>-I<sub>0</sub>] and log[Al<sup>3+</sup>] for the calculation of Limit of Detection[LOD].



ESI Fig.S1 IR Spectrum of Chemosensor L.



ESI Fig.S3 <sup>13</sup>C-NMR Spectrum of Chemosensor L.



ESI Fig.S4 UV-Vis absorption and Emission spectra of Chemosensor L.





ESI Fig.S6 Emission spectra of chemosensor L with Al<sup>3+</sup> metal ion in different aqueous medium (20%, 40 %, 60 %, 80 %, 100% water)



ESI Fig.S7 Plot between  $[I-I_0]/[I_{max}-I_0]$  and  $log[Al^{3+}]$  for the calculation of Limit of Detection[LOD].