

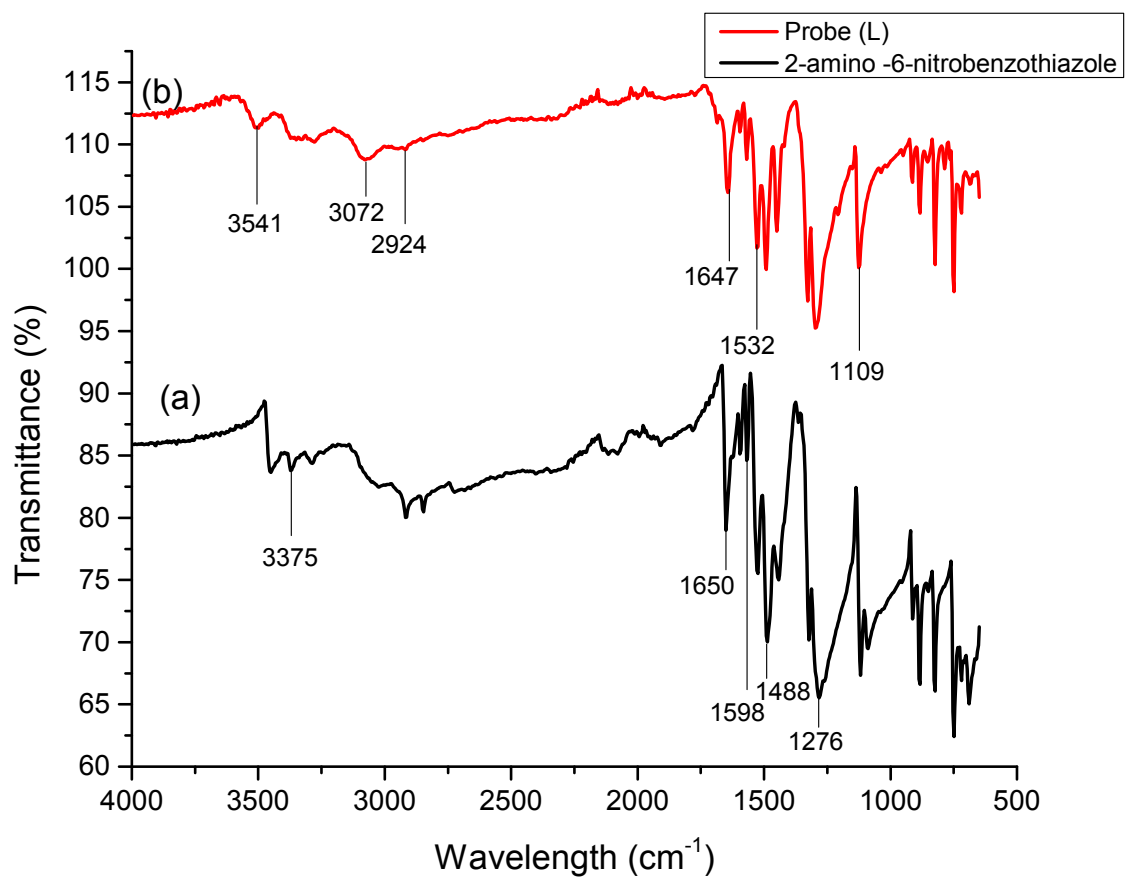
**Synthesis of New Benzothiazole Schiff Base as Selective and Sensitive Colorimetric Sensor  
for Arsenic on-site Detection at ppb Level**

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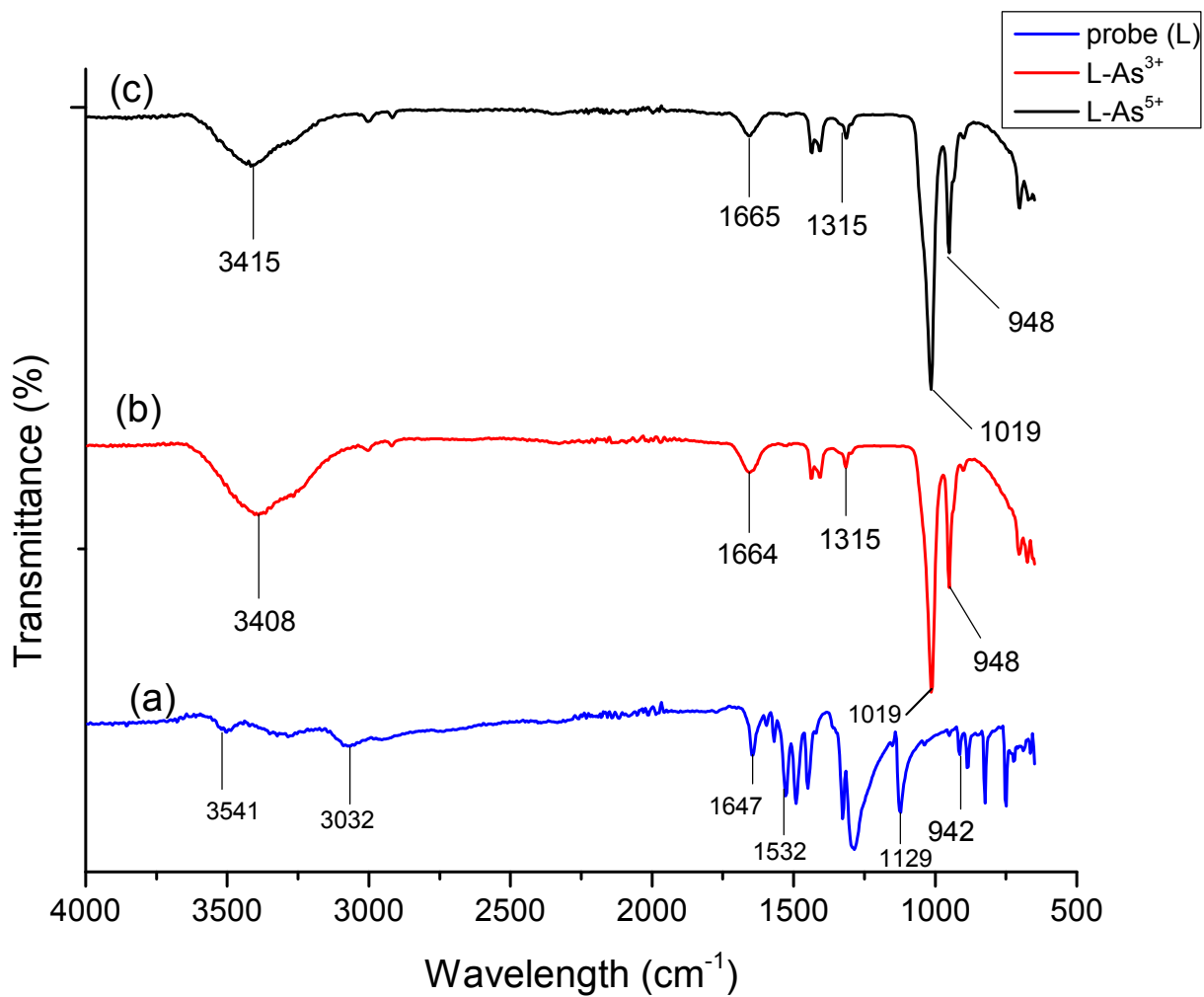
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**Fig. S1** FTIR spectra for (a) 2- amino-6-nitrobenzothiazole and (b) probe **L**



**Fig. S2** FTIR spectra of (a) probe (L) and (b) L-As<sup>3+</sup> complex (c) L-As<sup>5+</sup> complex