

## Supplementary Information

### Improvement of Solubility and Antifungal Activity of a New Aminothiophene Derivative by Complexation with 2-Hydroxypropyl- $\beta$ -cyclodextrin

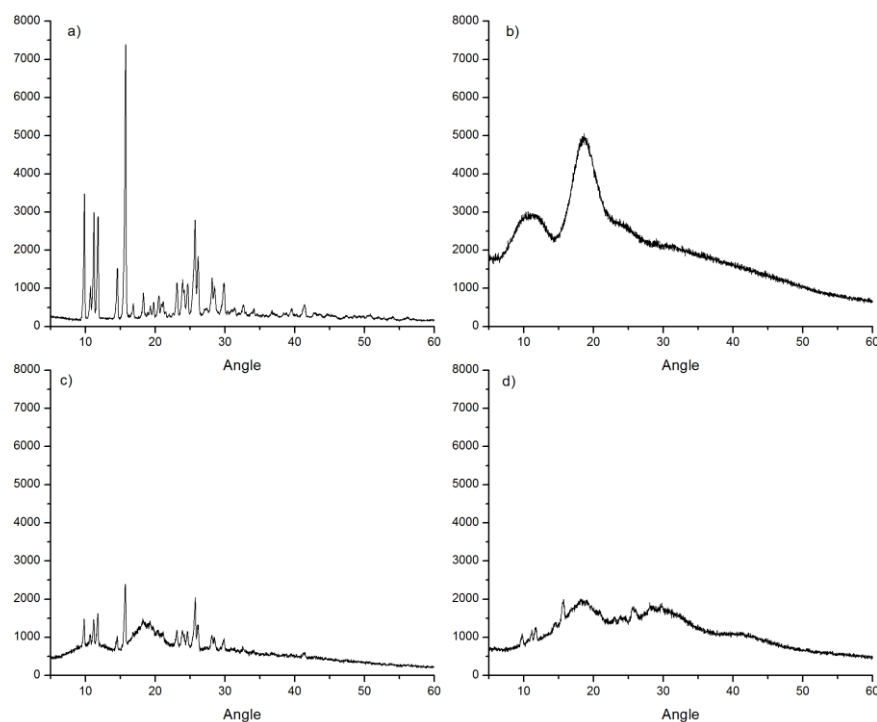
*Giovanna R. A. Eleamen,<sup>a</sup> Silvana C. da Costa,<sup>a</sup> Reginaldo G. Lima-Neto,<sup>b</sup> Rejane P. Neves,<sup>b</sup> Larissa A. Rolim,<sup>b</sup> Pedro J. Rolim-Neto,<sup>b</sup> Ricardo O. Moura,<sup>a</sup> Thiago M. de Aquino,<sup>c</sup> Edson S. Bento,<sup>c</sup> Marcus T. Scotti,<sup>d</sup> Francisco J. B. Mendonça-Junior,<sup>a</sup> Elisângela A. M. Mendonça<sup>a</sup> and Elquio E. Oliveira<sup>\*a</sup>*

<sup>a</sup>Laboratório de Síntese e Vetorização Molecular (LSVM), Universidade Estadual da Paraíba, 58071-160 João Pessoa-PB, Brazil

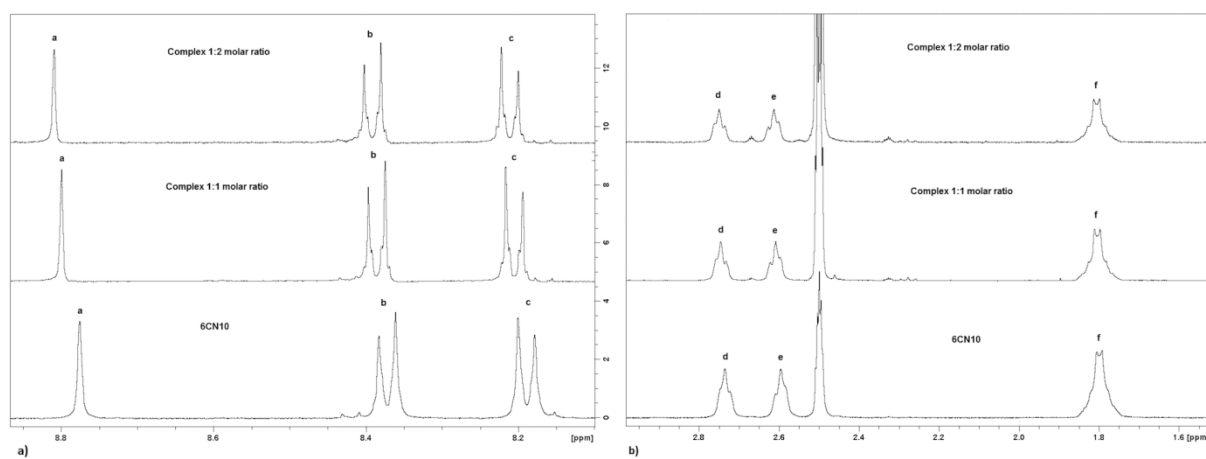
<sup>b</sup>Departamento de Ciências Farmacêuticas, Universidade Federal de Pernambuco, 50670-901 Recife-PE, Brazil

<sup>c</sup>Laboratório de Ressonância Magnética Nuclear, Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, 57072-900 Maceió-AL, Brazil

<sup>d</sup>Departamento de Engenharia e Meio Ambiente, Universidade Federal da Paraíba, Campus IV, 58297-000 Rio Tinto-PB, Brazil



**Figure S1.** XRD spectra of (a) 6CN10; (b) HP- $\beta$ -CD; (c) physical mixture and (d) 6CN10:HP- $\beta$ -CD complex.



**Figure S2.** Partial  $^1\text{H}$  NMR of 6CN10:HP- $\beta$ -CD complexes in 1:1 and 1:2 molar ratios in 400 MHz,  $\text{DMSO-}d_6$ , showing chemical shift changes in (a) aromatic and imine regions; (b) aliphatic region.