

SYNTHESIS AND CHARACTERIZATION OF Fe(III)-PIPERAZINE-DERIVED COMPLEXES ENCAPSULATED IN ZEOLITE Y

Márcio E. Berezuk*

Universidade Tecnológica Federal do Paraná, Rua Marçílio Dias, 635, 86812-460 Apucarana - PR, Brasil

Andrea Paesano Jr.

Departamento de Física, Universidade Estadual de Maringá, Av. Colombo, 5790, 87020-900 Maringá - PR, Brasil

Nakédia M. F. Carvalho

Department of Chemistry, Massachusetts Institute of Technology, 77 Massachusetts Avenue 02139, Cambridge, United States

Adolfo Horn Jr.

Laboratório de Ciências Químicas, Universidade Estadual do Norte Fluminense, Av. Alberto Lamego, 2000, 28013-602 Campos dos Goytacazes - RJ, Brasil

Pedro A. Arroyo e Lúcio Cardozo-Filho

Departamento de Engenharia Química, Universidade Estadual de Maringá, Av. Colombo, 5790, 87020-900 Maringá - PR, Brasil

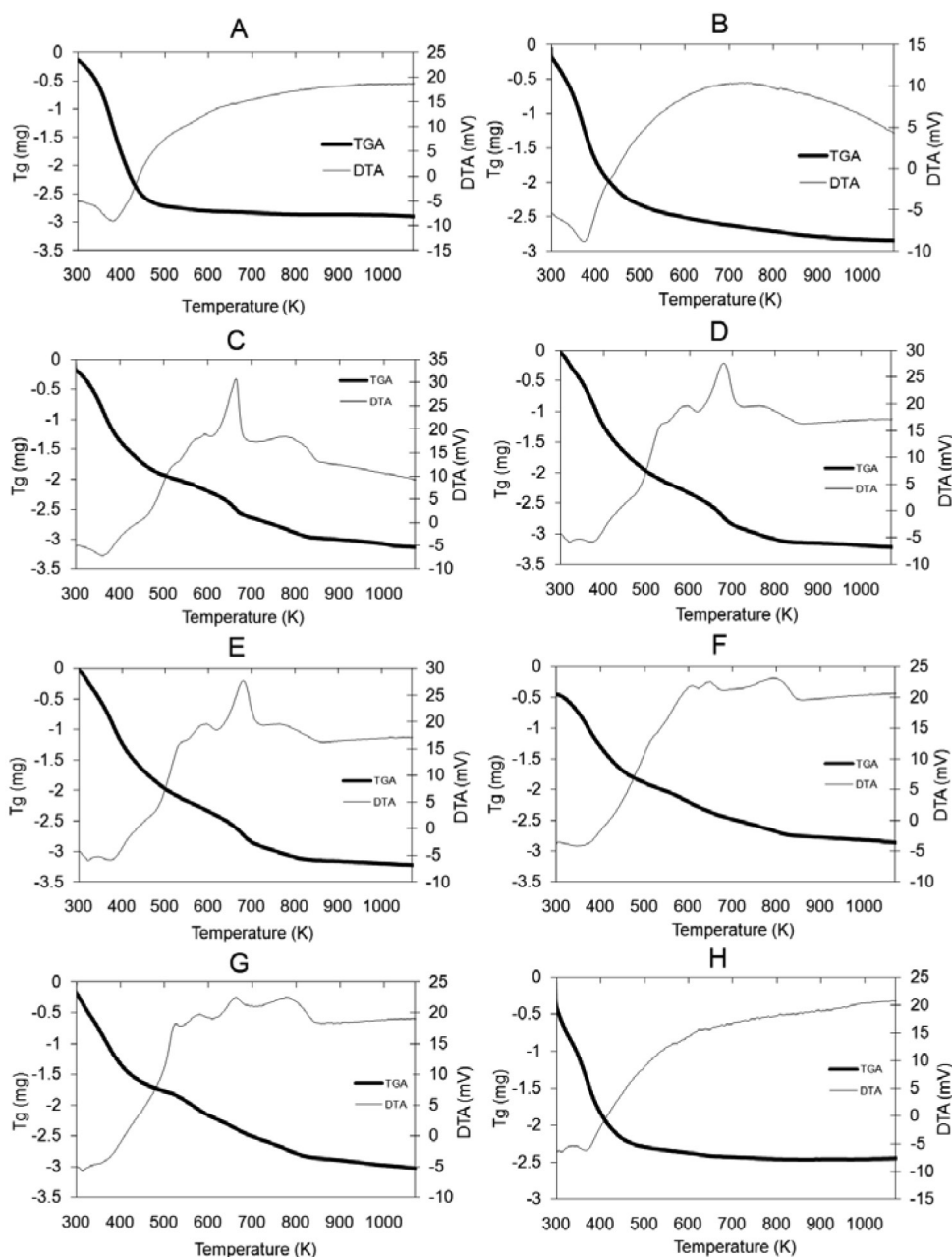


Figure 1S. TGA and DTA thermograms for NaY, FeY and the encapsulated complexes 1-6. (A) NaY, (B) FeY, (C-H) complexes 1-6

*e-mail: berezuk@utfpr.edu.br

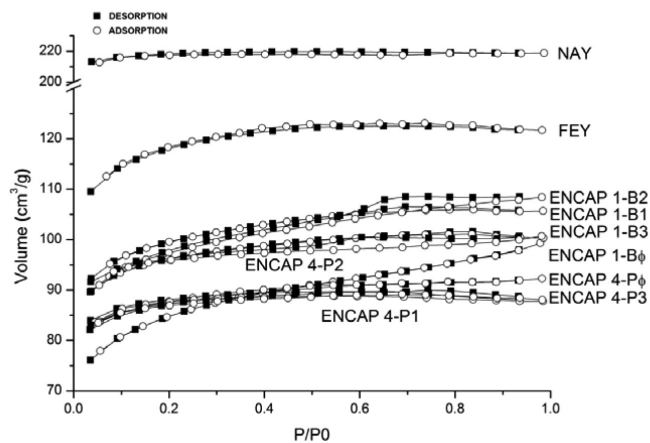


Figure 2S. Adsorption/desorption N_2 isotherms at 77 K for the encapsulated complexes 1 and 4, with the respective mechanical mixtures

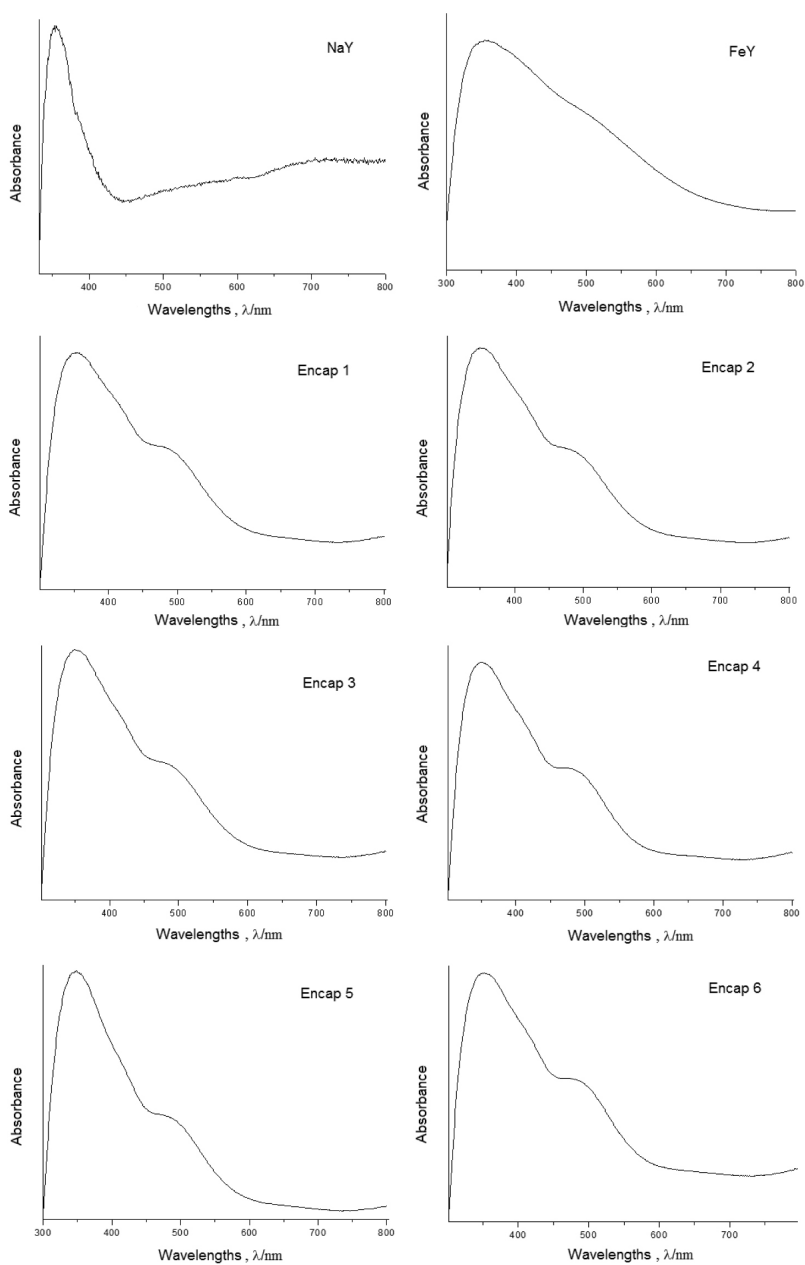


Figure 3S. DRS-UV spectra for the encapsulated complexes 1-6, and NaY and FeY zeolite

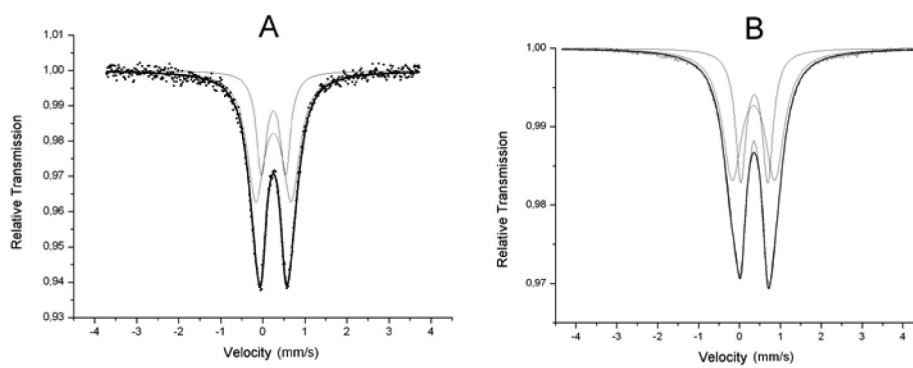


Figure 4S. Mössbauer spectra for: (A) Encap 2 and (B) Encap 1-B3