

## Calorimetric Publications by Margarida Bastos and colleagues

**1. Enthalpies of solution of Paracetamol and Sodium Diclofenac in Phosphate buffer and in DMSO at 298.15 K**

N. Alves, G. Bai and M. Bastos

*Thermochimica Acta*, **441**, 16-19 (2006)

**2. Thermodynamics of Self-Assembling of Hydrophobically Modified Cationic Polysaccharides and their Mixtures with Oppositely Charged Surfactants in Aqueous Solution.**

F G. Bai, M. Nichifor, A. Lopes and M. Bastos

*J. Phys. Chem B*, **109**, 21681-21689 (2005)

**3. Interactions and lipid-induced conformation of two cecropin-melittin hybrid peptides depends on peptide and membrane composition.**

F. Abrunhosa, S. Faria, P. Gomes, I. Tomaz, J. C. Pessoa, D. Andreu and M. Bastos

*J. Phys. Chem B*, **109**, 17311-17319 (2005)

**4. Porphyrin-substrate binding to murine ferrochelatase: effect on the thermal stability of the enzyme**

R. Franco, G. Bai, V. Prosinecki, F. Abrunhosa, G. Ferreira and M. Bastos

*Biochem. J.*, **386(3)**, 559-605 (2005)

**5. Thermodynamic characterization of the interaction behaviour of a hydrophobically modified polyelectrolyte and oppositely charged surfactants in aqueous solution: effect of the surfactant alkyl chain length.**

G. Bai, M. Nichifor, A. Lopes and M. Bastos

*J. Phys. Chem B*, **109**, 518-525 (2005)

- 6. Protein stabilization by osmolytes from hyperthermophiles: effect of mannosylglycerate on the thermal unfolding of SNase studied by picosecond time-resolved fluorescence and calorimetry**  
T. Q. Faria, J. C. Lima, M. Bastos, A. L. Maçanita and H. Santos  
*J. Biol. Chem.*, **279(47)**, 48680-48691 (2004)
- 7. Self-aggregation of amphiphilic cationic polyelectrolytes based on polysaccharides**  
M. Nichifor, S. Lopes, M. Bastos and A. Lopes  
*J. Phys. Chem B*, **108**, 16463-16472 (2004).
- 8. Unfolding of Ubiquitin studied by picosecond time-resolved fluorescence spectroscopy**  
M. Noronha, J. C. Lima, M. Bastos, H. Santos and A. L. Maçanita  
*Biophys. J.*, **87**, 2609-2620 (2004).
- 9. Enthalpy of solution of  $\alpha$ -cyclodextrin in water and in formamide at 298.15 K.**  
M. Bastos, S. Milheiras and G. Bai  
*Thermochimica Acta*, **420**, 111-117 (2004).
- 10. BSA conformational changes upon adsorption on titania and on hydroxyapatite and their relation with biomineralization**  
A. P. Serro, M. Bastos, J. Pessoa and B. Saramago  
*J. Biomed. Mat. Res.*, **70A(3)**, 420-427 (2004).
- 11. Hydration of ds-DNA and ss-DNA by (quasi-elastic) Neutron Scattering**  
M. Bastos, G. Mrevlishvili, V. Castro and J. Teixeira  
*Biophys. J.* **86**, 3822-3826 (2004).
- 12. Thermodynamics of interaction between hydrophobically modified polyelectrolyte and sodium dodecyl sulfate in aqueous solution.**  
G. Bai, L.M.N.B.F. Santos, M. Nichifor, A. Lopes and M. Bastos  
*J. Phys. Chem B* **108**, 405-413 (2004)

**13. Interaction of antiinflammatory drugs with EPC liposomes. Calorimetric study in a broad concentration range.**

C. Matos, J.L.C. Lima, S. Reis, A. Lopes and M. Bastos  
*Biophys. J.* **86**, 946-954 (2004)

**14. Studies of inclusion complexes between cyclodextrins and polyazamacrocycles of lanthanide (III) ions**

E.S. Henriques, M. Bastos, C.F.G.C. Geraldes and M.J. Ramos  
*J. Chem. Thermodynamics*, **35**, 1717-1735 (2003)

**15. A new dissolution microcalorimeter. Calibration and test.**

M. Bastos, G. Bai, E. Qvarnström and I. Wadsö  
*Thermochimica Acta*, **405**(1), 21-30 (2003)

**16. Studies on the properties of Celluclast/Eudragit L-100 Conjugate**

F. Dourado, M. Bastos, M. Mota and F.M. Gama  
*J. Biotechnol.* **99**:2, 121-131 (2002)

**17. Thermodynamics of the helix-coil transition. The binding of S-15 and a hybrid sequence, disulfide stabilized peptide to the S-Protein**

M. Bastos, J.H.B. Pease, D. Wemer, K.P. Murphy and P.R. Connelly  
*Proteins: Structure, Function and Genetics*, **42**, 523 (2001).

**18. The influence of glycerol on ligand binding equilibria between monoalcohols and  $\alpha$ -cyclodextrin**

R. Moreira and M. Bastos  
*J. Chem. Thermodynamics*, **32**, 1539 (2000).

**19. Enthalpies of Solution of n-alcohols in Formamide and Ethylene Glycol**

F. Rocha and M. Bastos  
*J. Solution Chem.*, **26**, 989 (1997).

**20. Interactions in the model system  $\alpha$ -cyclodextrin-glycerol. Experimental and theoretical study**

M. Bastos, M. Afonso, M.H. Caçote and M.J. Ramos  
*J. Chem. Soc. Faraday Trans.*, **93**, 2061 (1997).

**21. Heat conduction calorimeters: time constants, sensitivity and fast titration experiments**

P. Bäckman, M. Bastos, D. Hallén, P. Lönnbro and I. Wadsö  
*J. Biochem. Biophys. Methods*, **28**, 85 (1994).

**22. A system of microcalorimeters**

P. Bäckman, M. Bastos, L.-E. Briggner, S. Hägg, D. Hallén, P. Lönnbro, S.-O. Nilsson, G. Olofsson, A. Schön, J. Suurkuusk, C. Teixeira and I. Wadsö  
*Pure and Appl. Chem*, **66(3)**, 375 (1994).

**23. Fast titration experiments using heat conduction calorimeters**

M. Bastos, S. Hägg, P. Lönnbro and I. Wadsö  
*J. Biochem. Biophys. Methods*, **23**, 255 (1991).