ADDITIONS AND CORRECTIONS

Vol. 29, 1996

Raymond U. Lemieux: How Water Provides the Impetus for Molecular Recognition in Aqueous Solution

Pages 373−380. **A Correction of Erroneous Thermodynamic Parameters and Their Interpretation.** The thermodynamic parameters for the binding of the H-type 2-OMe trisaccharide by the lectin *Psophocarpus tetragonolobus II* (Winged bean) reported in Table 3 of my article on the role of water in molecular recognition have been found to be in error by way of titration microcalorimetry.[1] The data reported[2] for a variety of congeners should also be disregarded.

The values $\Delta H^\circ = -5.4$ and $T\Delta S^\circ = +0.8$ reported in Table 3 are now expected to be −17 and −10 kcal/mol, respectively.[3] Thus, this binding reaction is strongly exothermic, in accordance with the presence of a hydraphobic contribution to the binding, as discussed in the original Account. The discussion in this paper based on the erroneous thermodynamic parameters that begins with "However" on line 8 of the second paragraph, first column, page 379, and ends with "hydrophobic effect" on line 16 of the same paragraph should be disregarded as misleading.

(1) Sigurskjold, B. W.; Altman, E.; Bundle, D. R. *Eur. J. Biochem*. **1991**, *197*, 239−246.
(2) Lemieux, R. U.; Du, M.-H.; Spohr, U.; Acharya, S.; Surolia, A. *Can. J. Chem*. **1994**, *72*, 158−163.
(3) Bundle, D. R.; Chervenak, M. C., private communication.

10.1021/AR990027R
Published on Web 06/24/1999