

Supporting Information

Infrared Multiple Photon Dissociation Spectroscopy and Density Functional Theory (DFT) Studies of Protonated Permethylated β -Cyclodextrin-Water Noncovalent Complexes

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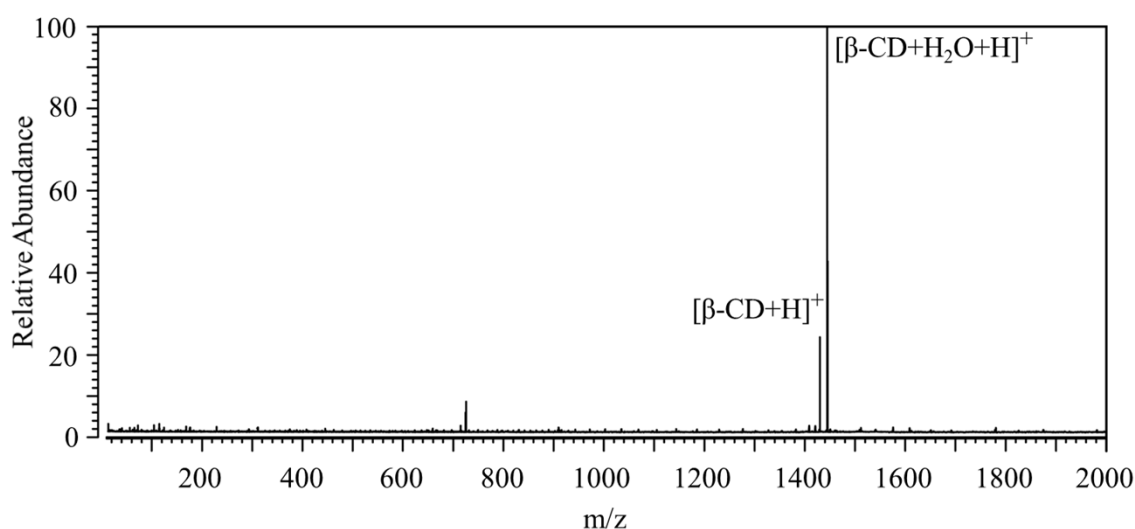


Figure S1. ESI-MS spectrum showing the abundant formation of protonated permethylated β -cyclodextrin-water non-covalent complexes.

Table S1. Electronic energies, zero-point energies, relative electronic energies, and relative Gibbs free energies at 298 K of two permethylated β -CD conformers.

	E (Hartree)	ZPE (kcal/mol)	ΔE (kcal/mol)	ΔG_{298K} (kcal/mol)
Conformer I	-5098.95478	1131.19	0	0
Conformer II	-5098.93754	1130.81	10.82	12.21