

# CHROMATO-MASS SPECTROMETRIC ANALYSIS AND BINDING STUDIES OF CYCLOHEXANOHEMICUCURBIT[8]URILS

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Cyclohexanohemicucurbit[*n*]urils (cycHC[*n*]) are chiral macrocyclic molecular containers bearing an electron-deficient cavity that allows accommodation of various electron-rich guests [1-3]. The new mono-biotinylated cyclohexanohemicucurbit[8]uril (mixHC[8]) is formed via templated mechanochemically-assisted self-assembly [4] of different starting monomeric units (Fig. 1) along with the homomeric cyclohexanohemicucurbit[8]uril (cycHC[8]). The comprehensive HPLC-UV-MS analysis during the synthesis of macrocycles providing mechanistic insight, and their host-guest binding to anions and neutral heterocyclic organic molecules are discussed.

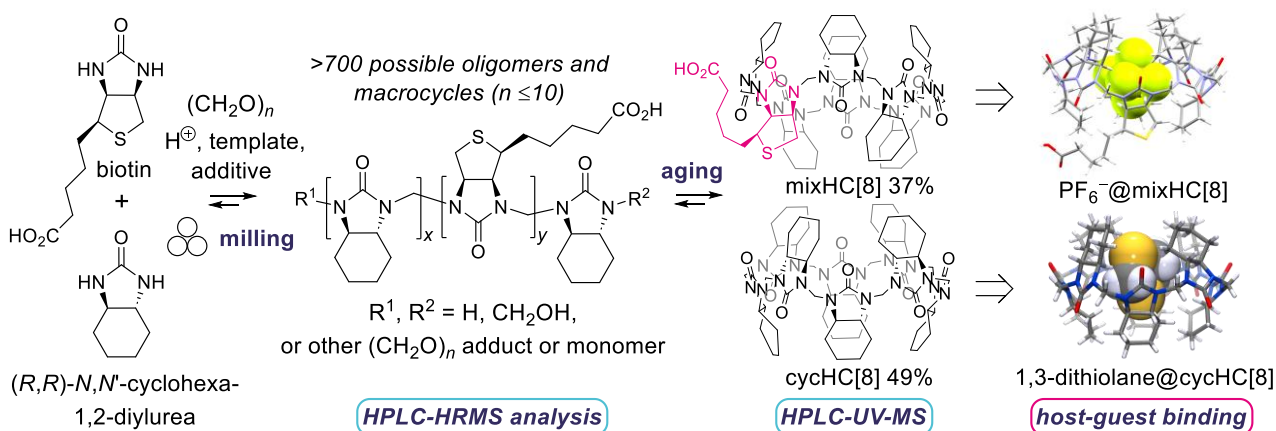


Fig.1 General scheme of mixHC[8] and cycHC[8] synthesis, and examples of their host-guest complexes.

## References

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