

# SYNTHESIS OF (2S)-2,3-DIAMINOPROPIONIC ACID BASED UREA

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Urea derived macrocycles have been extensively studied in recent year. In our group, we have synthesized chiral hemicucurbiturils using cyclohexanediamine based monomer (Fig.1a).<sup>[1,2]</sup> These hemicucurbiturils are soluble in organic solvents and shows great affinity toward anion binding.<sup>[3]</sup> In order to widen the scope of applications of chiral hemicucurbiturils in different media, including water, and with variations in functionality we made an attempt to synthesize new monomer from (2S)-2,3-Diaminopropionic acid (Fig.1b). Separation and characterization of new (2S)-2,3-diaminopropionic acid based urea will be presented.

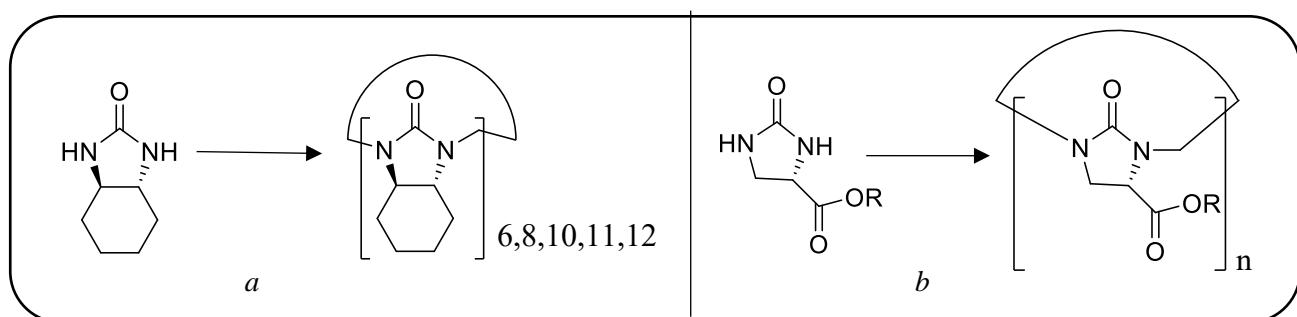


Fig. 1 Reaction pathway for macrocyclization of (a) cyclohexanediamine derived urea (b) (2S)-2,3-diaminopropionic acid derived urea

## Reference

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