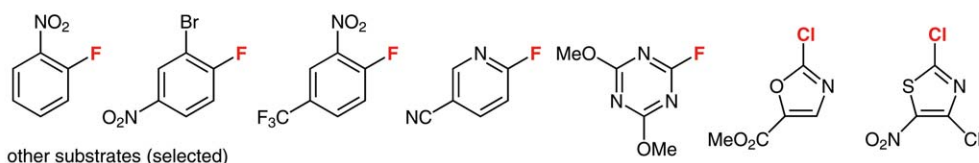
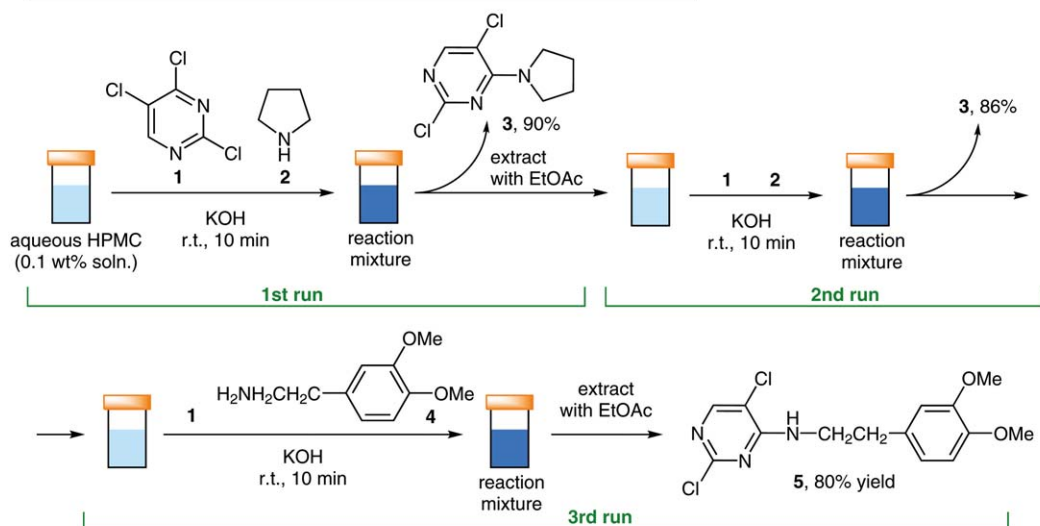
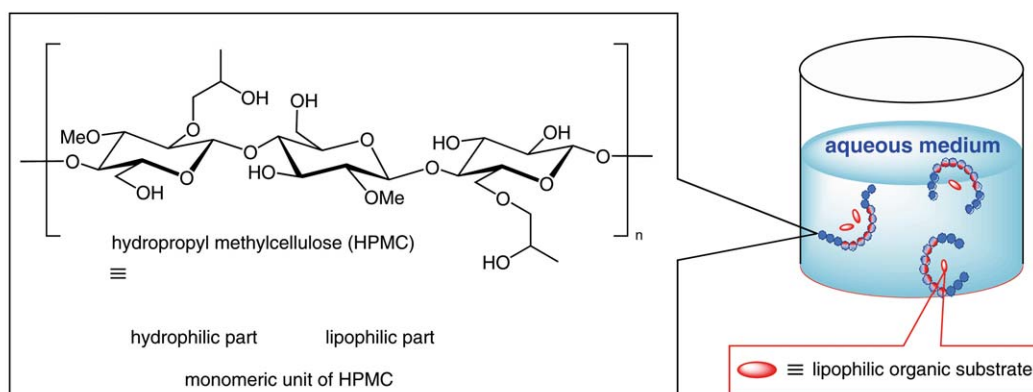


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Nucleophilic Aromatic Substitution Reactions under Aqueous, Mild Conditions Using Polymeric Additive HPMC
Green Chem. **2021**, 23, 3955–3962, DOI: 10.1039/d1gc00128k.

Aromatic Substitution in Water by Using a Polymeric Amphiphilic Additive



Significance: S_NAr amination reactions of various aryl fluorides or chlorides with amine nucleophiles was achieved in water in the presence of amphiphilic hydroxypropyl methylcellulose (HPMC). The aqueous HPMC phase could be reused in consecutive runs.

Comment: A lipophilic reaction pocket formed by folding of HPMC in water promotes the organic reaction. S_NAr reactions with thiols or a benzylic alcohol were also examined.

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Synfacts 2021, 17(09), 1023 Published online: 18.08.2021
DOI: 10.1055/s-0040-1720820; Reg-No.: Y08221SF

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Category

Polymer-Supported
Synthesis

Key words

aqueous media

aromatic
substitution

aryl halides

polysaccharides

aromatic amination

S_NAr reaction

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