

## Supporting Information

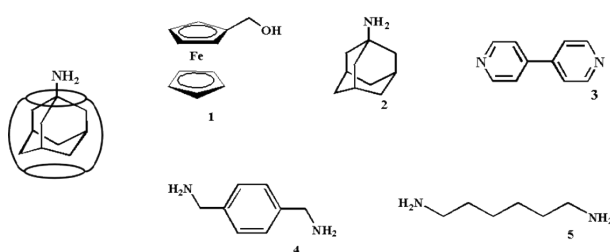
### Detection of Heterocyclic Amine (PhIP) by Fluorescently Labelled Cucurbit[7]uril

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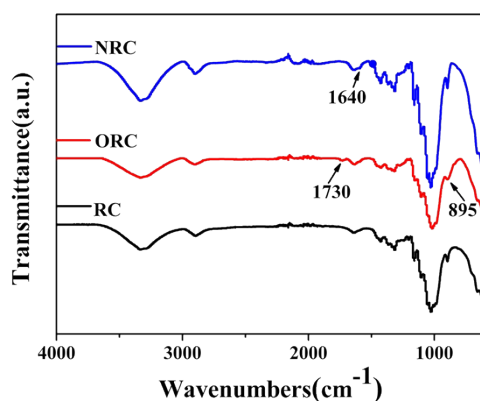
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**Figure. S1.** The structure of the molecule that binds to CB[7].



**Figure. S2.** Infrared spectra of regenerate cellulose membrane (RC), oxidized cellulose membrane (ORC) and PhIP molecules attached membrane.

**Table S1.** An overview on recently reported methods for the determination of heterocyclic amine (PhIP)

Techniques/ materials used	Limit of detection/ merit	References
UPLC-MS/	0.013 ng/g Complicate preprocessing and instrument	[51]
UHPLC-QE / MS	0.1 ng/mL Complicate preprocessing and instrument	[52]
LC-ECD	2 ng/g Complicate instrument	[53]
Fluorescence Immunoassay	0.01 ng/ml Complicate immunoassay Materials	[54]
Host-guest recognition fluorescence detection	0.224 ng/g Simple, low cost, in situ detection	This work

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