**Supporting Information**

Efficient removal of carcinogenic azo dyes by novel pyrazine-2-carboxylate substituted

calix[4, 8]arene derivatives

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**Contents**

|  |  |
| --- | --- |
| Figure S1. Mass spectrum of the compound 3. | S2 |
| Figure S2. Mass spectrum of the compound 6.  | S2 |
| Figure S3. H-NMR spectrum of the compound 3. | S3 |
| Figure S3. H-NMR spectrum of the compound 6.  | S3 |

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**Figure S1.** Mass spectrum of the compound **3.**

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**Figure S2.** Mass spectrum of the compound **6.**

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**Figure S3.** H-NMR spectrum of the compound **3.**

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**Figure S4.** H-NMR spectrum of the compound **6.**