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#### SUPPORTING INFORMATION

## Selective Synthesis of 5-Aryl-10-(Nitromethyl) Substituted 15-azatripyrrane, 15-oxatripyrrane, 15-thiatripyrrane: An Access to Nitromethyl Functionalized A<sub>3</sub>B-Porphyrins

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#### 1. Table S1. Optimization of the reaction conditions for the formation of 5g

### 2. NMR Spectra of compounds 5a-l and 6a-e



Figure S1. <sup>1</sup>H NMR spectrum of **5a** (Solvent: CDCl<sub>3</sub>)







Figure S6. <sup>13</sup>C NMR spectrum of **5c** (Solvent: CDCl<sub>3</sub>)



Figure S8. <sup>13</sup>C NMR spectrum of **5d** (Solvent: CDCl<sub>3</sub>)



Figure S10. <sup>13</sup>C NMR spectrum of **5e** (Solvent: CDCl<sub>3</sub>)



Figure S11. <sup>1</sup>H NMR spectrum of **5f** (Solvent: CDCl<sub>3</sub>)













Figure S21. <sup>1</sup>H NMR spectrum of **5k** (Solvent: CDCl<sub>3</sub>)





Figure S24. <sup>13</sup>C NMR spectrum of **5I** (Solvent: CDCl<sub>3</sub>)



Figure S26. <sup>13</sup>C NMR spectrum of **6a** (Solvent: CDCl<sub>3</sub>)



Figure S28. <sup>13</sup>C NMR spectrum of **6b** (Solvent: CDCl<sub>3</sub>)



# Figure S29. <sup>1</sup>H NMR spectrum of **6e** (Solvent: CDCl<sub>3</sub>)

141.3 132.9 128.7 128.3 128.3 128.3 128.4 127.2 127.2 127.2 125.8 125.6	107.9 106.3	7.97	43.8	38.3
	57			



Figure S30. <sup>13</sup>C NMR spectrum of **6e** (Solvent: CDCl<sub>3</sub>) **3. NMR Spectra and Uv-visible spectra of compounds 7a-d** 





Figure S32. UV-vis spectrum of 7a (Solvent: CH<sub>2</sub>Cl<sub>2</sub>)



Figure S33. <sup>1</sup>H NMR spectrum of **7b** (Solvent: CDCl<sub>3</sub>)





Figure S35. <sup>1</sup>H NMR spectrum of **7c** (Solvent: CDCl<sub>3</sub>)





Figure S37. <sup>1</sup>H NMR spectrum of mixture **7d** with corresponding  $A_4$  porphyrin (Solvent: CDCl<sub>3</sub>) (Solvent residual peaks at 0.5-2.5 ppm)