

## Electronic Supplementary Information for

Facile and economical synthesis of metal-organic framework  
MIL-100(Al) gels for high efficiency removal of  
Microcystin-LR

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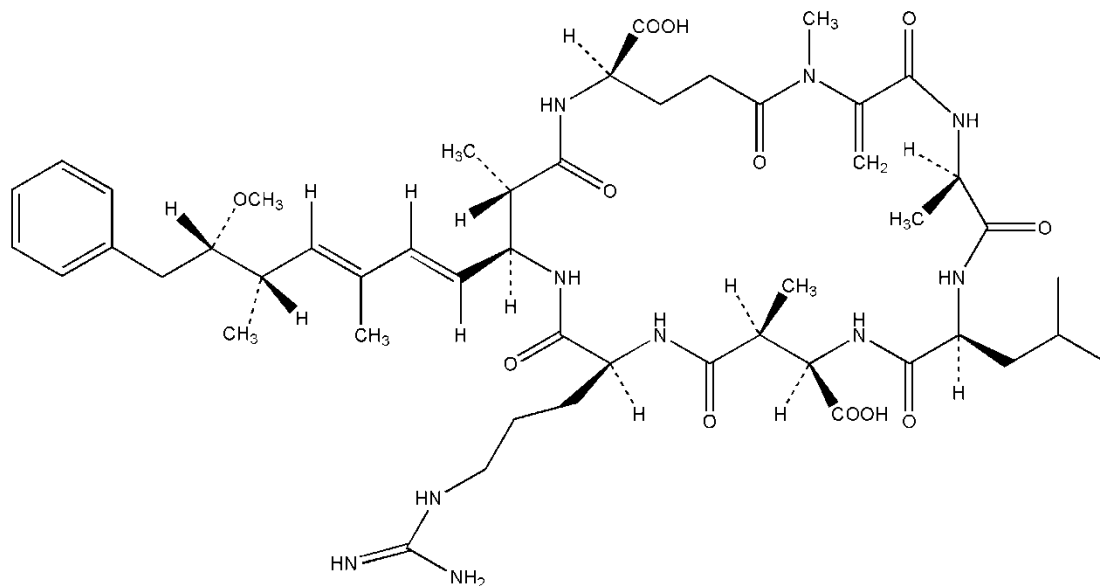


Fig. S1 The molecular structure of microcystin-LR. The longest molecular length is 1.9 nm.

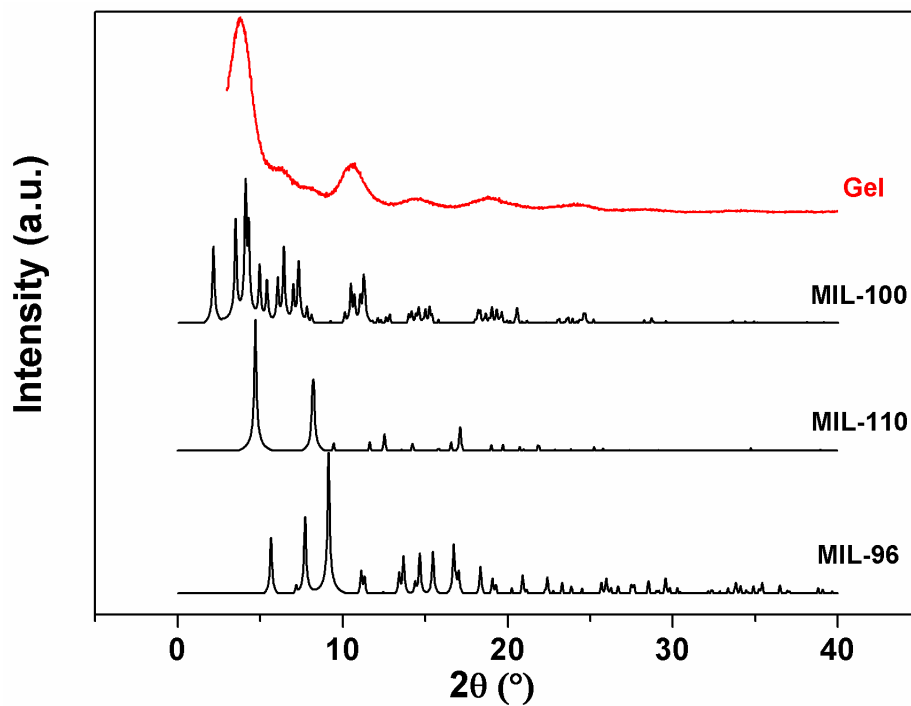


Fig. S2 PXR D pattern for the MIL-100(AI) gel sample and the simulated pattern from crystallographic information files of the MIL-100, MIL-110, MIL-96 crystals.

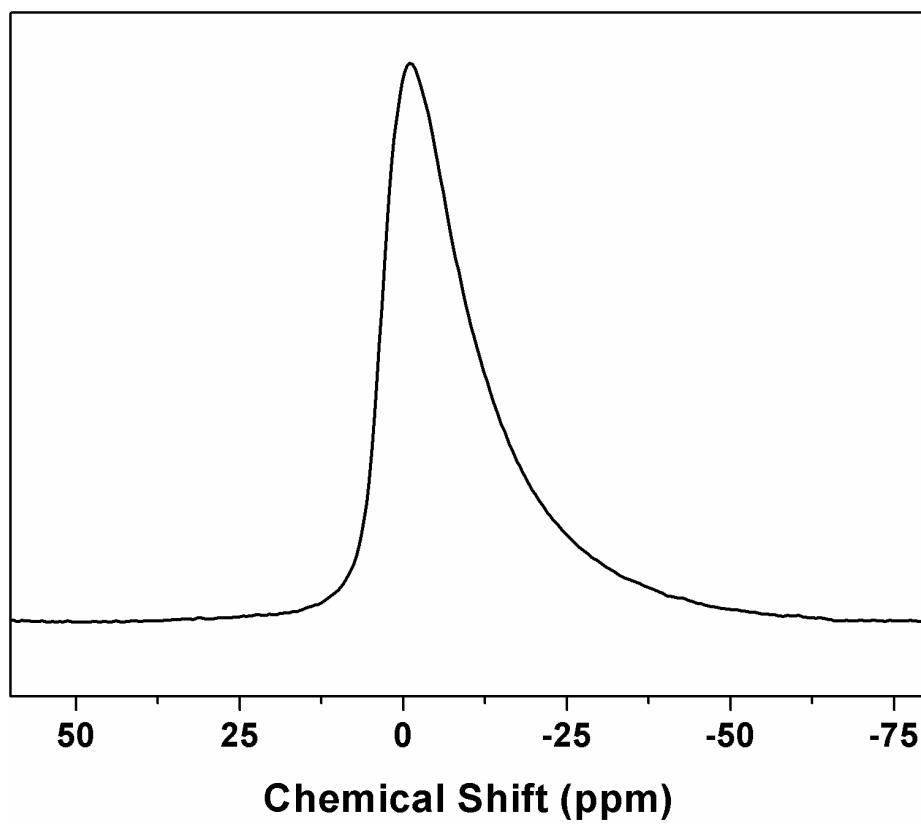


Fig. S3  $^{27}\text{Al}$  Solid State NMR spectrum of the MIL-100(Al) gel.

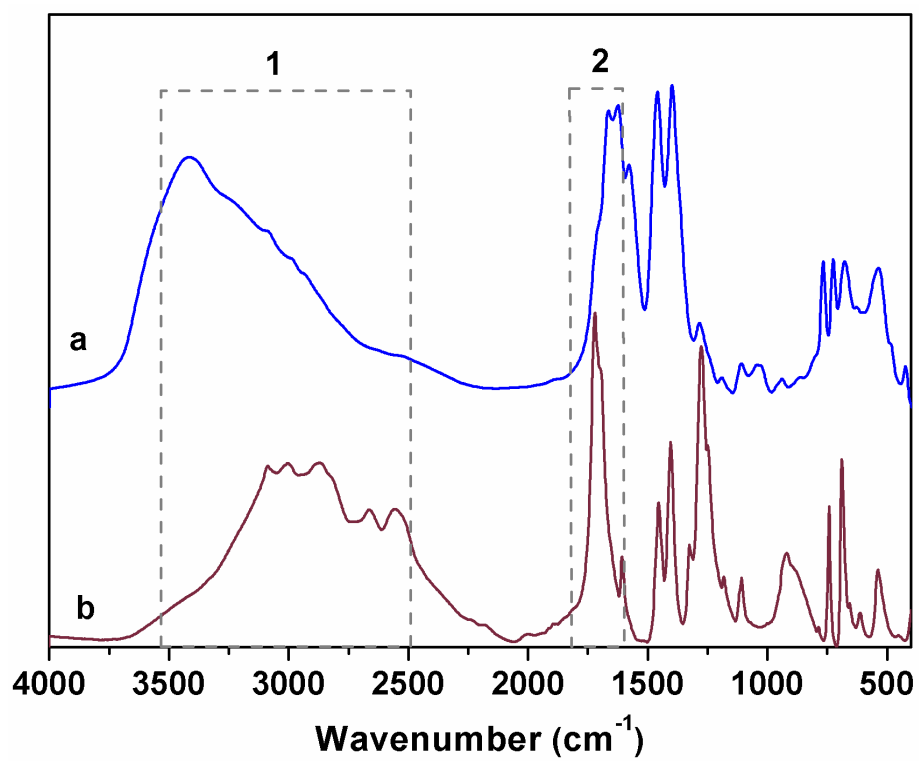


Fig. S4 FT-IR spectra of (a) activated MIL-100(Al) gel and (b) H<sub>3</sub>BTC ligand.

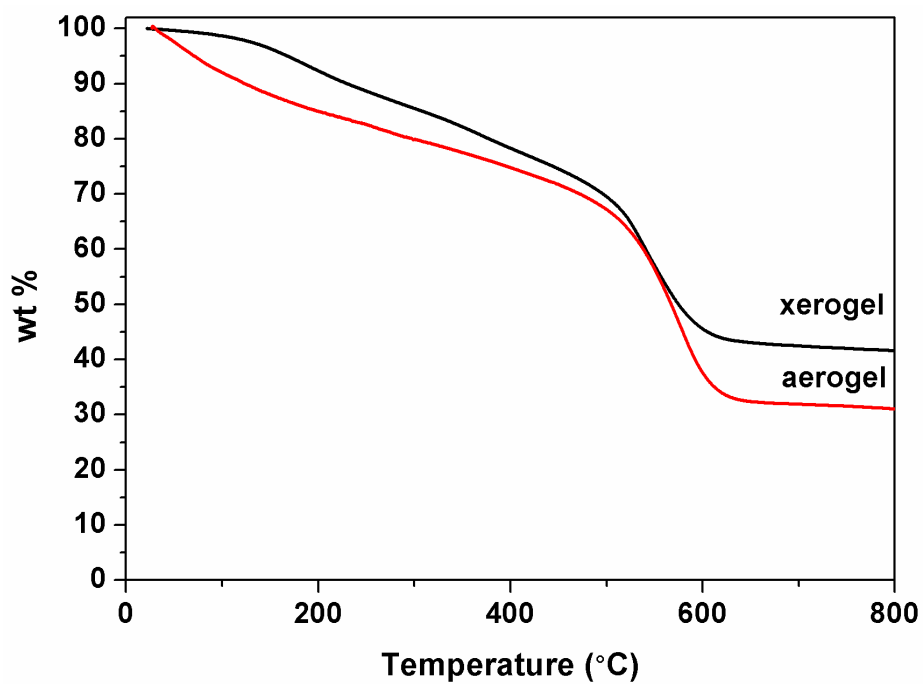


Fig. S5 Thermogravimetric analyses of the MIL-100(Al) xero- and aerogel samples in nitrogen atmosphere.

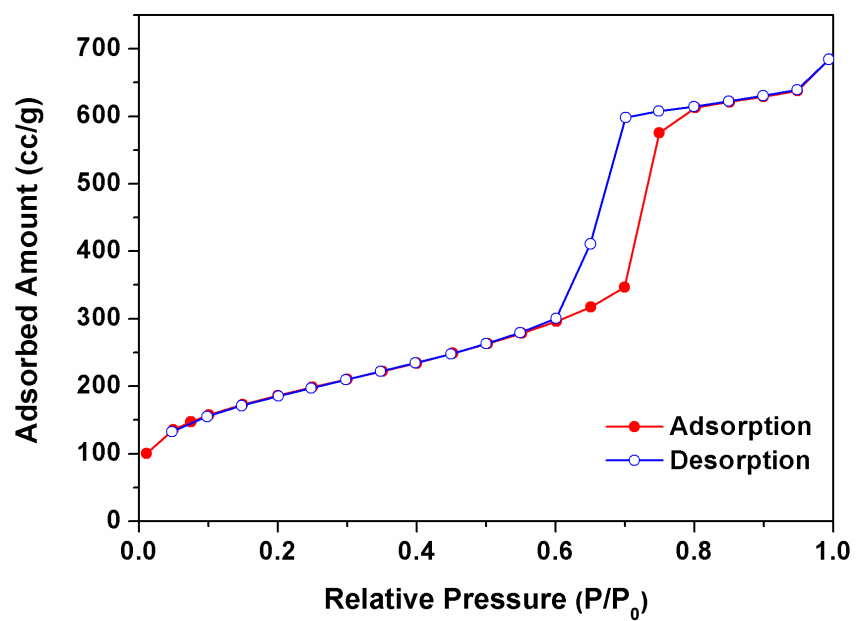


Fig. S6 N<sub>2</sub> sorption isotherms of SBA-15 zeolite used in this experiment revealing a BET surface area of 660 m<sup>2</sup>/g.

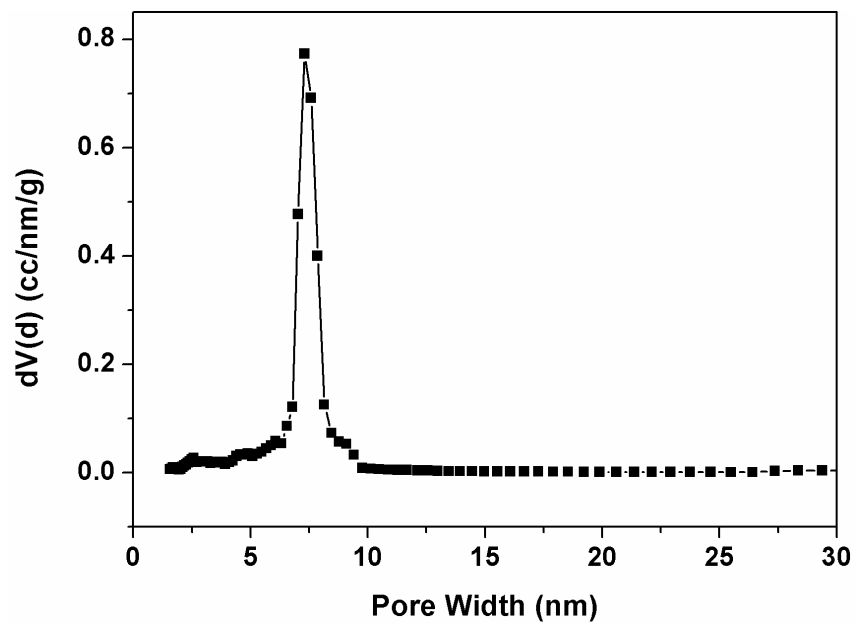


Fig. S7 Pore size distribution of the SBA-15 zeolite, which shows that the pore size is predominately around 7.5 nm.