Supplemental data of cefotaxime dimer and trimer structural characterization

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a. cefotaxime sodium；b. cefotaxime dimer；c.cefotaxime trimer

Fig.S1 UV spectra of cefotaxime sodium, cefotaxime dimer and cefotaxime trimer

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a. cefotaxime sodium；b. cefotaxime dimer；c. cefotaxime trimer

Fig.S2 IR spectra of cefotaxime sodium、cefotaxime dimer and cefotaxime trimer

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a.Full mass spectrum；[b. second](mailto:b. second) mass spectrum@851.09[M+H]+

Fig.S3 Typical MS spectra of cefotaxime dimer

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a.Full mass spectrum；[b. second](mailto:b.%20second) mass spectrum@1246.13[M+H]+

Fig.S4 Typical MS spectra of cefotaxime trimer



Fig.S5 The 1H-NMR spectrum of cefotaxime sodium



Fig.S6 The 13C-NMR spectrum of cefotaxime sodium

Fig.S7 The 1H-NMR spectrum of cefotaxime dimer

Fig.S8 The 13C-NMR spectrum of cefotaxime dimer

Fig.S9 The HSQC spectrum of cefotaxime dimer

  
Fig.S10 The HMBC spectrum of cefotaxime dimer

Fig.S11 The 1H-1H COSY spectrum of cefotaxime dimer



Fig.S12 The 1H-NMR spectrum of cefotaxime timer



Fig.S13 The 13C-NMR spectrum of cefotaxime timer



Fig.S14 The HSQC spectrum of cefotaxime timer

  
Fig.S15 The HMBC spectrum of cefotaxime timer



Fig.S16 The 1H-1H COSY spectrum of cefotaxime timer