

## **SUPPORTING INFORMATION**

### **Synthesis of the conjugation-ready $\beta$ -mannosamine containing O-antigen repeat from *V. cholerae* O14**

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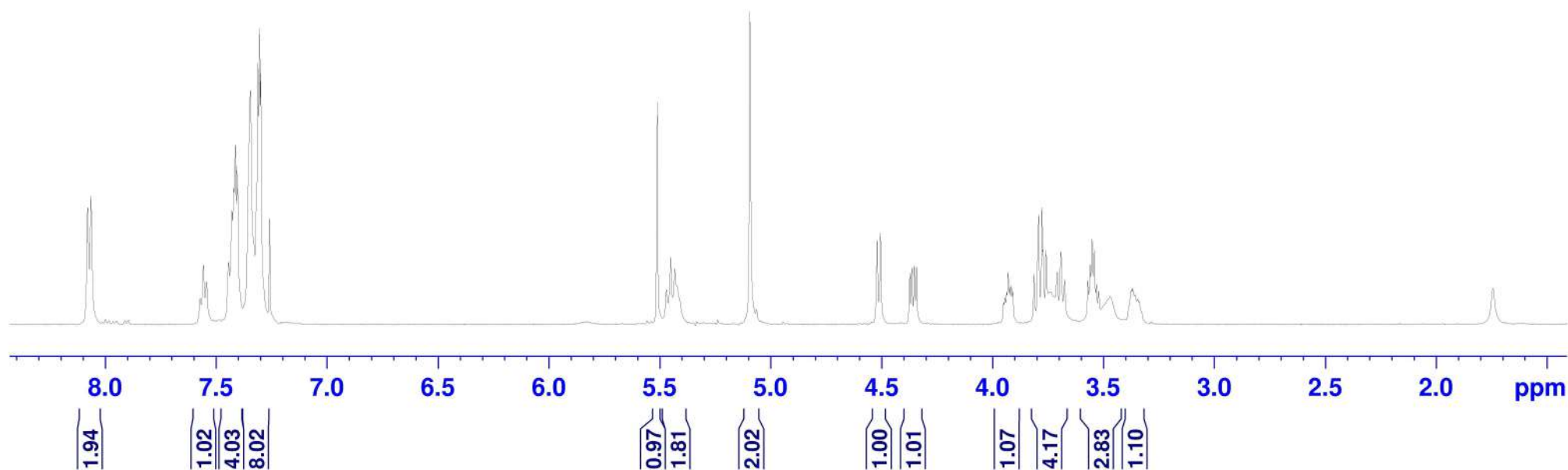
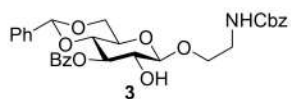
1. Copies of the  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^1\text{H}$ - $^1\text{H}$  COSY and  $^1\text{H}$ - $^{13}\text{C}$  HSQC NMR spectra

GROUP BM  
BM-SNM-123 in CDCl<sub>3</sub>

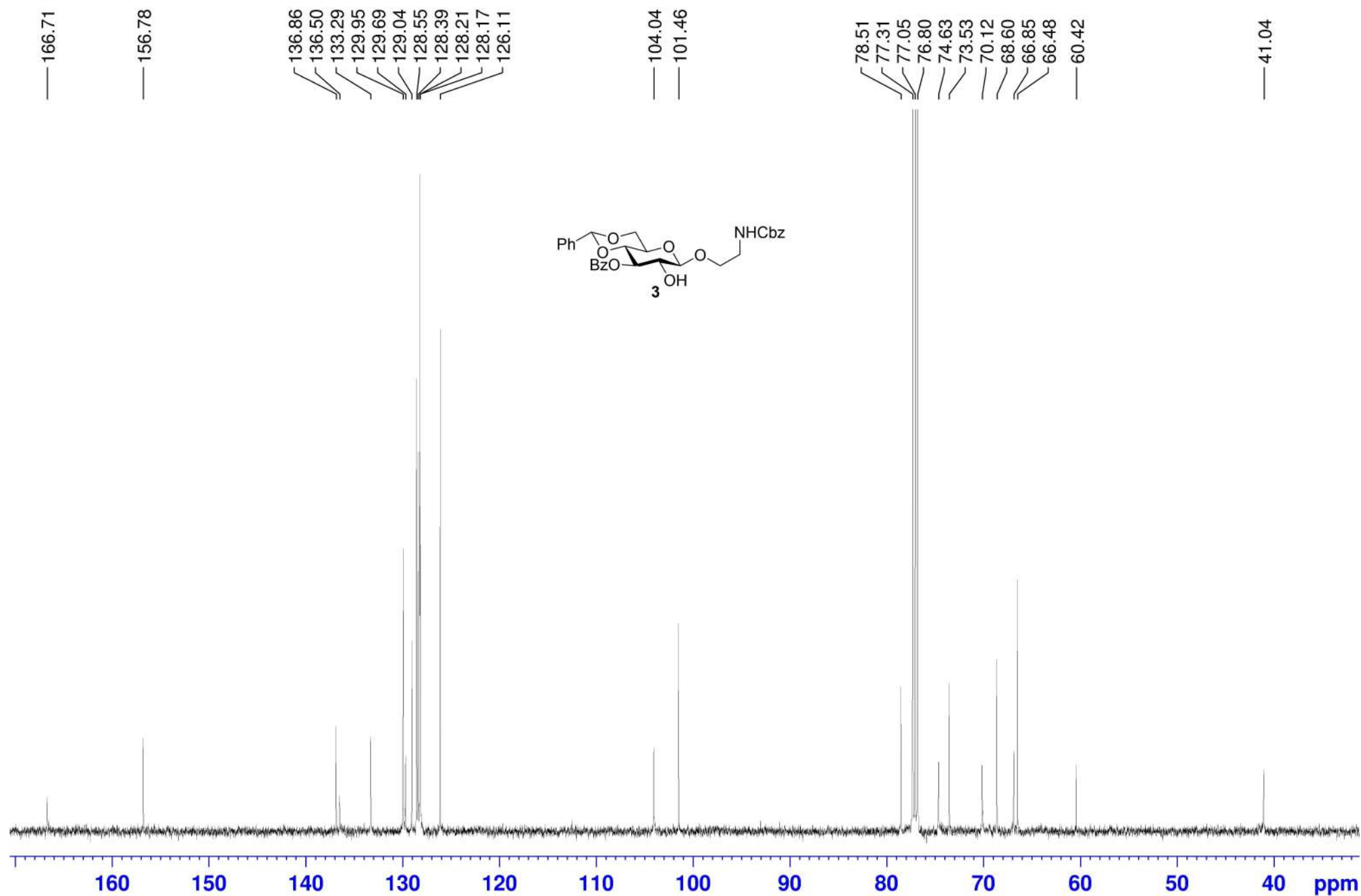
8.080  
8.065  
7.558  
7.543  
7.445  
7.429  
7.414  
7.407  
7.403  
7.346  
7.312  
7.304  
7.299  
7.259

5.512  
5.470  
5.452  
5.433  
5.094  
4.522  
4.506  
4.374  
4.364  
4.353  
4.343  
3.930  
3.916  
3.813  
3.793  
3.778  
3.759  
3.709  
3.692  
3.676  
3.570  
3.560  
3.551  
3.542  
3.532  
3.522  
3.472  
3.368

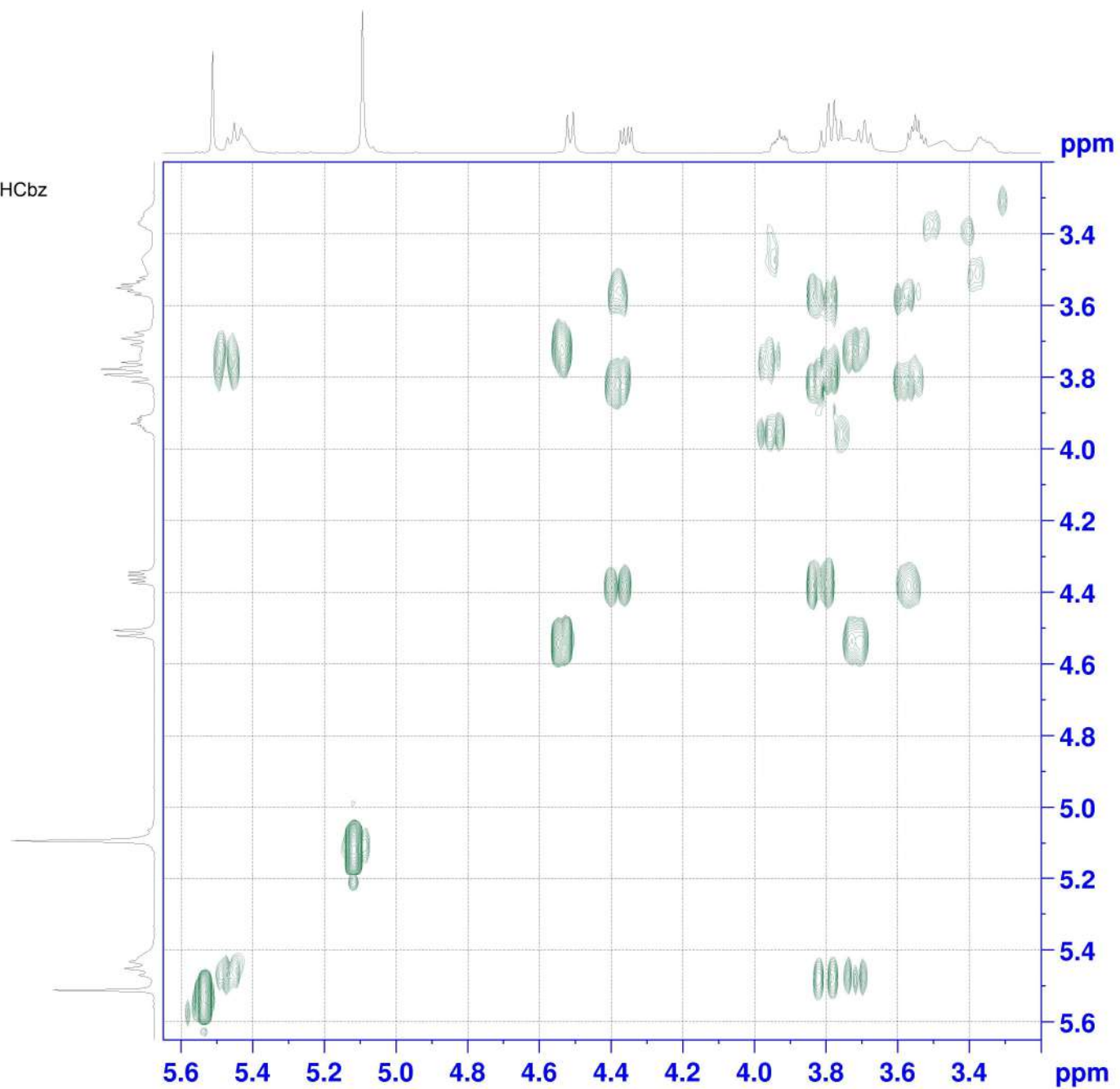
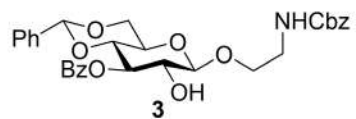
1.745



GROUP BM  
BM-SNM-123 in CDCl<sub>3</sub>



GROUP BM  
BM-SNM-SM051  
COSY



GROUP BM  
BM-SNM-123 in CDC13  
HSQCGP

