



Supplementary Figure S5. ^1H , TOCSY (150 ms), and HSQC spectra of disaccharide ΔM (in fact, two disaccharides $\Delta\text{M}\alpha$ and $\Delta\text{M}\beta$), recorded in D_2O at 300K. $\Delta 4\text{M}\alpha$ means Δ H-4 of disaccharide $\Delta\text{M}\alpha$, $\Delta 4\text{M}\beta$ means Δ H-4 of disaccharide $\Delta\text{M}\beta$, etc.; $\text{Mred}1\alpha$ means M H-1 of disaccharide $\Delta\text{M}\alpha$, $\text{Mred}1\beta$ means M H-1 of disaccharide $\Delta\text{M}\beta$, etc. (see Table 2 in main text).