

Fig. S1a. ^{13}C NMR subspectrum of the artificial mixture of 14 sugar model compounds; Region 91ppm-106ppm

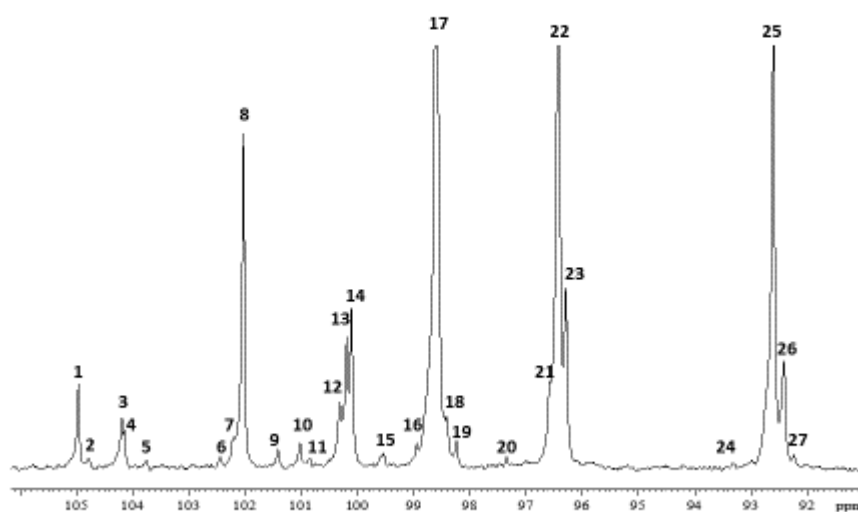


Fig. S1b. ^{13}C NMR subspectrum of the artificial mixture of 14 sugar model compounds; Region 78ppm-96ppm

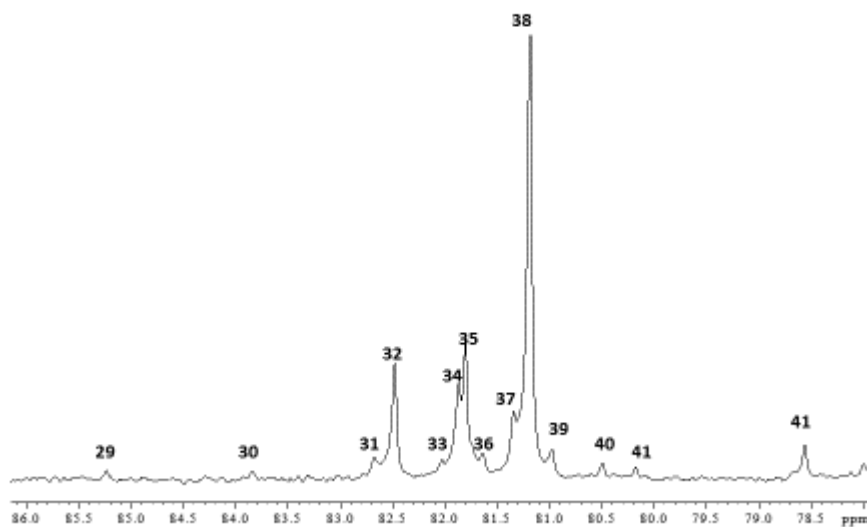


Fig. S1c. ^{13}C NMR subspectrum of the artificial mixture of 14 sugar model compounds; Region 73ppm-78ppm

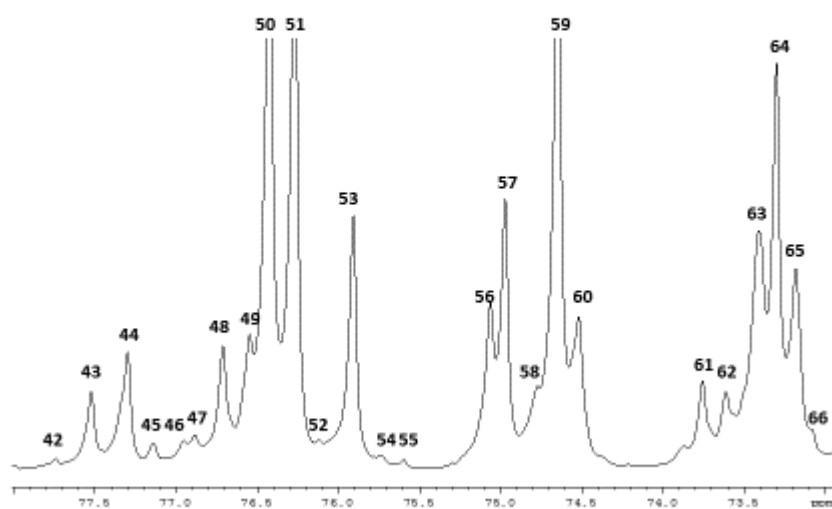


Fig. S1d. ^{13}C NMR subspectrum of the artificial mixture of 14 sugar model compounds; Region 69ppm-73ppm

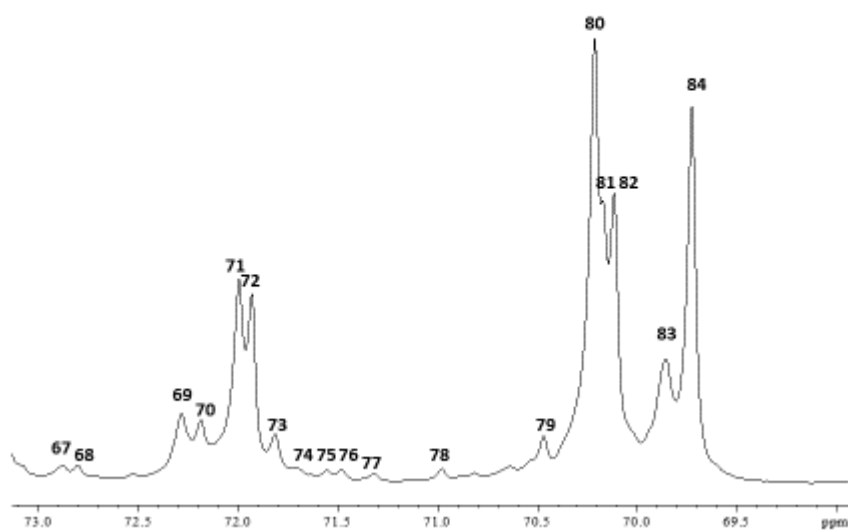


Fig. S1e. ^{13}C NMR subspectrum of the artificial mixture of 14 sugar model compounds; Region 60ppm-69ppm

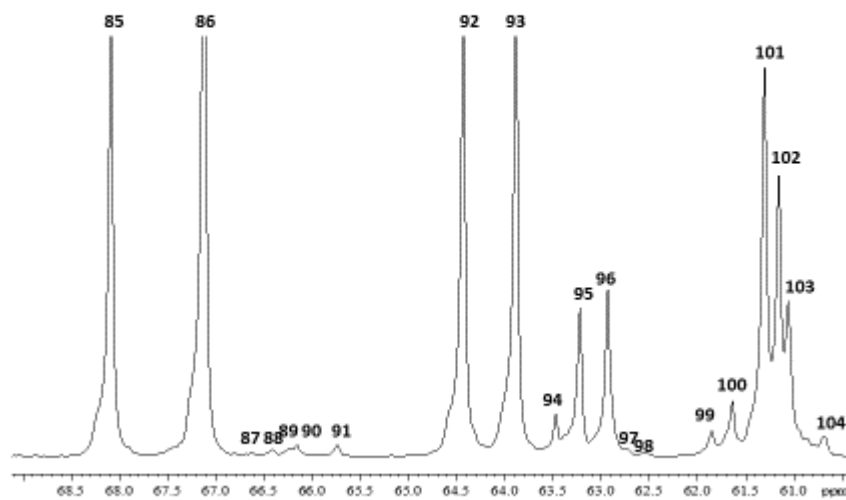


Fig. S2. Actual vs. ^{13}C NMR concentration of isoglucose

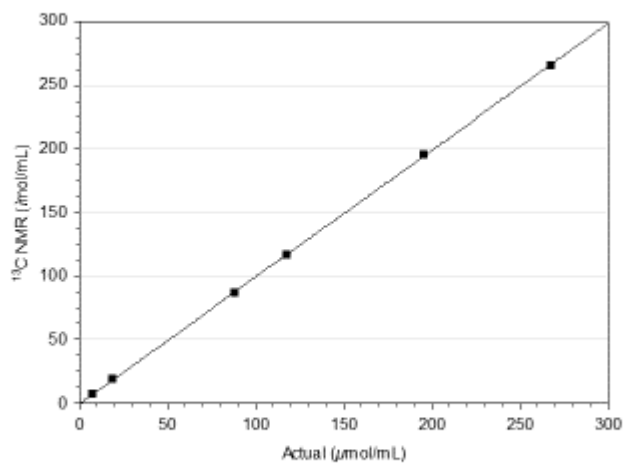


Fig. S3. Actual vs. ^{13}C NMR concentration of artificial mixture

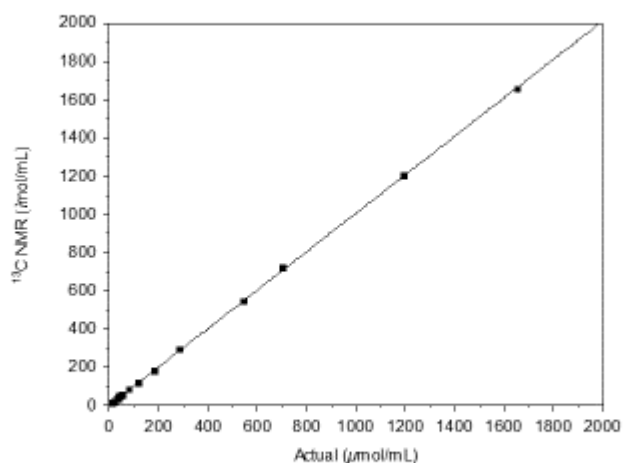


Figure S4. Actual concentration of β -D-glycopyranose vs. ^{13}C NMR concentration (left), and the ratio of average signal integrals of β -D-glycopyranose over the signal integral of the internal standard (right) over the whole concentration range.

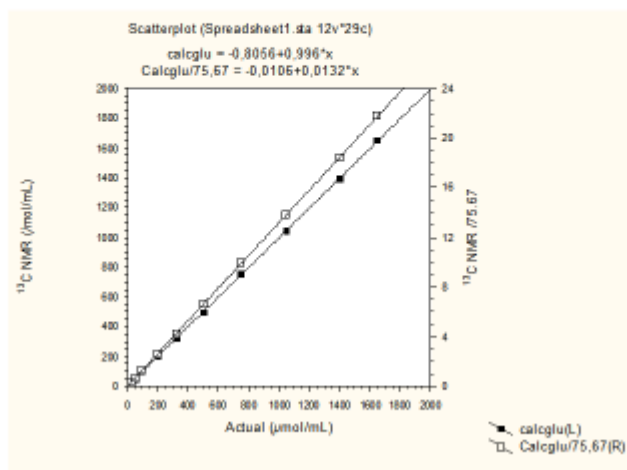


Fig. S5. Average actual concentration of β -D-glycopyranose vs. S/N ratio over the whole concentration range.

