Supplementary Material : Figure S1
Examples of SIM-GC-MS chromatograms for every type of sugar

- SIM-GC-MS Chromatograms show the relative abundance according to the retention time (RT), from the start until the end of the runs (i.e. RT : 35.99 min)

- For each type of sugar, the top chromatogram shows a control (C0) (i.e. with no sugar enrichment) and the chromatogram at the bottom shows the highest concentration level (C3)

- The peak(s) and RT for the sugars of interest are indicated with blue arrow(s) on the chromatograms

After silylation, some reducing sugars (such as fructose and glucose) result in a pair of chromatographically resolvable peaks due to their limited rotation along the C=N bond.

- The normalized level (NL), a measure of the height of the largest peak, is indicated on the chromatograms
Sucrose enrichment

Sucrose
RT: 34.04

NL: 3.62E8 TIC MS
suc_c3_2

Sucrose
RT: 34.04

NL: 5.07E8 TIC MS
suc_c0_1
Fructose enrichment

Fructose A
RT: 24.26

Fructose B
RT: 24.44
Glucose enrichment

Glucose A
RT: 24.67

Glucose B
RT: 24.98
Trehalose enrichment

RT: 0.00 - 35.99

NL: 3.70E8 TIC MS tre_c0_1

NL: 6.07E8 TIC MS tre_c3_1

Trehalose RT: 35.22