Supplemental Table 1. Honeybee glucose concentration measured by the Accu-Chek glucometer and the UniCel DxC 600 spectrophotometer in commercial trehalose and fructose solutions (solvent: 0.9% NaCl).

| Solution          | Value measured by Accu-Chek glucometer, mmol/L | Value measured by UniCel DxC 600 spectrophotometer, mmol/L |
|-------------------|-----------------------------------------------|----------------------------------------------------------|
| Trehalose (10 mmol/L) | Low                                           | 0.1                                                      |
| Fructose (20 mmol/L)   | Low                                           | 0.3                                                      |

The enzymatic protocol was executed as follows:

1 Trehalose

Diluted trehalase (1:9 0.9% NaCl) (T8778; Millipore Sigma) was mixed with diluted hemolymph.

3-h incubation at 37°C (20 RPM). Each trehalose molecule yields 2 glucose molecules.

2 Glucose

Trehalose concentration was measured indirectly by calculating the difference between glucose concentration before and after the enzymatic reaction.

Supplemental Figure 1. Trehalase enzymatic protocol.