**Supplementary material**

**Physiological and biochemical processes underlying the differential sucrose yield and biomass production in sugarcane varieties**

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**Figure S1:** Leaf water potential (Ѱ) of sugarcane IACSP95-5000 and IACSP94-2094 during maximum growth and maturation periods. Symbols represents mean ± SE; *n*=8. \* indicates statistical difference between varieties, distinct lowercase letters indicate statistical differences among sampling times.



**Figure S2:** Above-ground fresh biomass of sugarcane IACSP95-5000 and IACSP94-2094 during maximum growth and maturation periods. Symbols represents mean ± SE; *n*=8. \* indicates statistical difference between varieties, distinct lowercase letters indicate statistical differences among sampling times.