



**Figure 4.** Biomass accumulation and  $\alpha$ -L-iduronidase (IDUA) secretion in *Brassica rapa rapa* hairy root clone with optimized parameters. **A)** Biomass accumulation (DW, g/l). Dry weight biomass after secretion induction (Dunnett T3). Asterisks indicate significant differences in levels  $p < 0.05$  (\*). Error bars represent the standard deviation of four biological replicates. **B)** Immunodetection of IDUA protein in equivalent amounts of recovered media from the different treatments. A positive control of a commercial standard protein (+) (ABIN1464142, Antibodies-online) and a negative control (-) of clean non-induction media. The red arrow shows the 70.8 kDa band corresponding to the mature non-glycosylated standard protein. In the contiguous table, the relative densitometries of the different treatments are displayed. [A=PVP; B=2,4-D; C=KNO<sub>3</sub>; D=PVP+2,4-D; E=PVP+2,4-D; F=PVP+2,4-D+KNO<sub>3</sub>; G=No induction.] **C)** IDUA activity assay on the culture medium of the different treatments applied. Error bars indicates standard deviations. \* indicates significant difference based on Student test ( $p < 0.05$ ).