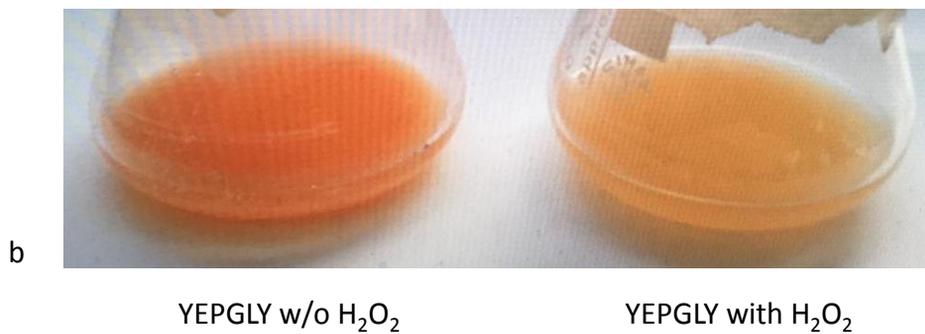
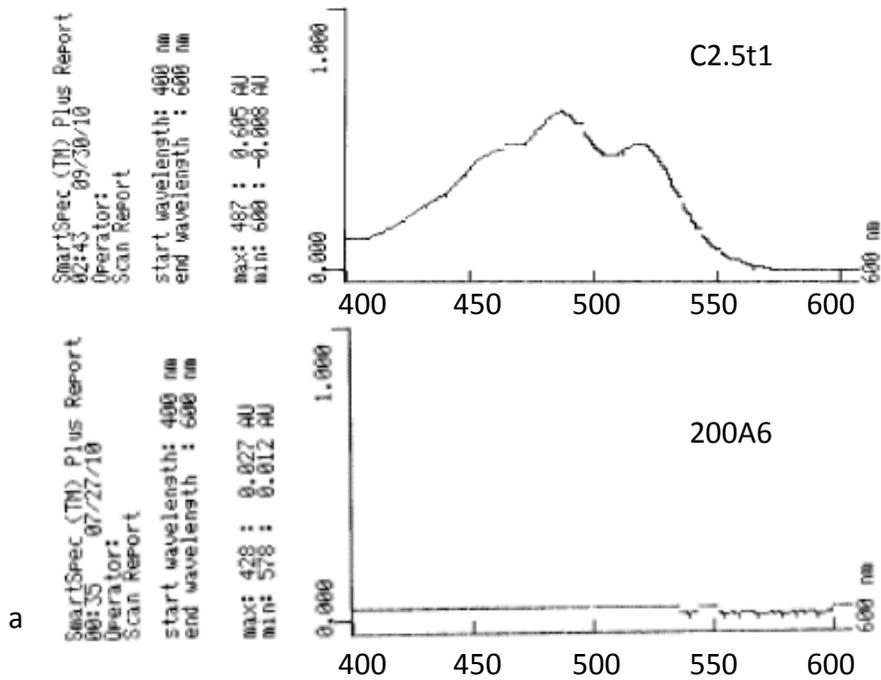


Supplemental Figure 1. Flow cytometry of PI stained cells. Cells samples were re-suspended in PBS (NaCl 8.0 g/l, KCl 0.20 g/l, Na₂HPO₄ 1.44 g/l, KH₂PO₄ 0.24 g/l, pH 7.4) to a final concentration of 1*10⁶ cells/ml. Cell suspensions were stained as follows: 10 µl PI stock solution (10 mg/ml) in PBS was added to 1 ml of cell suspension just prior to the analysis. Samples were analyzed with a BD FACSCalibur equipped with argon laser (15 mW, emission 488 nm) for the acquisition of fluorescence: FL1 (green, 525 nm), FL2 (yellow, 575 nm) and FL3 (orange-red, 620 nm). Fluorescence was detected in fluorescence channel 3. a) Cells treated with 70% ethanol (positive control of cell membrane permeability); b and c) Cells sampled after 1 hour incubation in YEPGLY w/o and YEPGLY with 16 mM H₂O₂, respectively.



Supplemental Figure 2. a) Carotenoids quantification. Representative images of UV/VIS scanning spectra of total carotenoids. B) Effect of hydrogen peroxide on carotenoids content in C2.5t1.