

Supplementary S3. Emission spectrum of the light emitting diodes used in the work

Emission of LEDs for culturing of the cells of *Coelastrella rubescens* NAMSU R1 and sunscreens synthesis induction (Figure S1). The following LEDs were used in the work: UV-A LED (spectral range of 380-415 nm, power of 2.9 W/m²) and cold-white LED with the photon flux density of 50 $\mu\text{mol}/\text{m}^2/\text{s}$ ("low light", LL), and of 150 $\mu\text{mol}/\text{m}^2/\text{s}$ ("high light", HL) (Figure S3). Spectra were registered by an Ocean FX miniature spectrometer (Ocean Optics Inc., Great Britain) equipped with an integrative sphere ISP-80-8-R 80 mm in diameter of the same manufacturer.

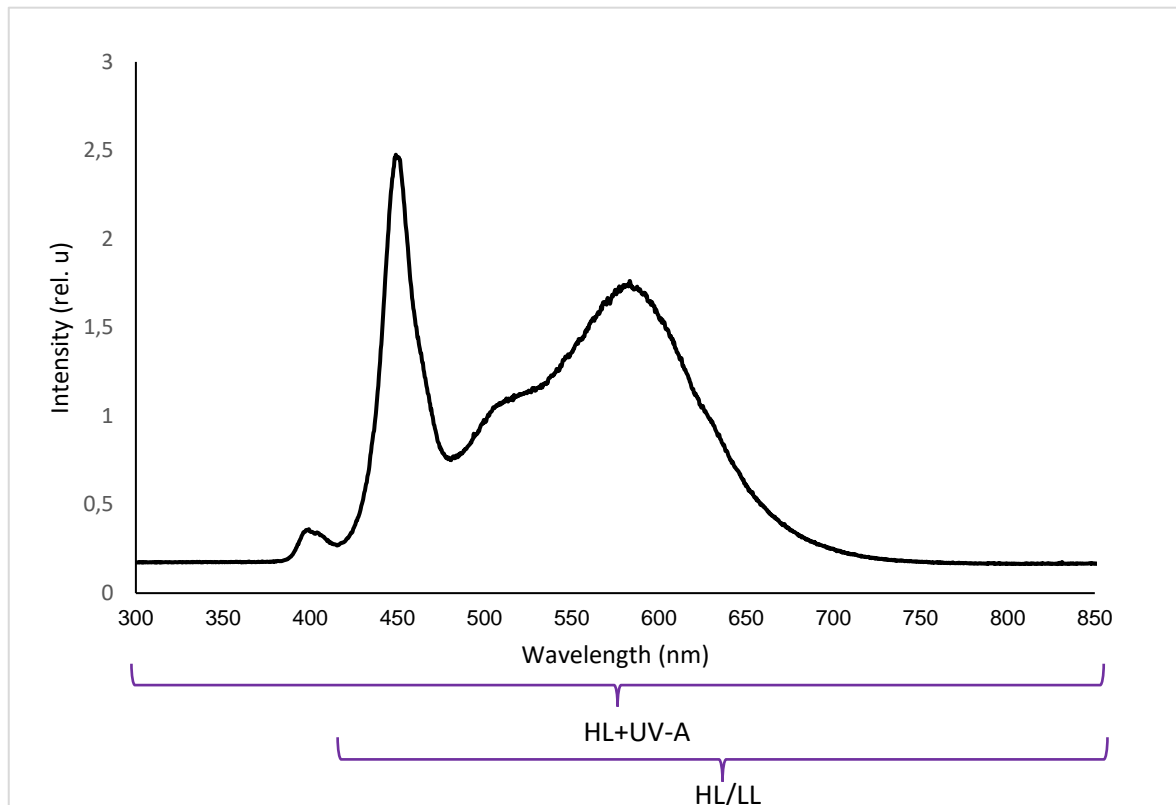


Figure S3. Emission spectrum of LEDs used for culturing of algal cells and sunscreen synthesis induction. HL, LL – part of the spectrum presented in the low light and high light. HL+UV-A combined high light and UV-A.