

Suspension Cell Culture of *Polyscias fruticosa* (L.) Harms in Bubble-Type Bioreactors—Growth Characteristics, Triterpene Glycosides Accumulation and Biological Activity

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Supplementary materials

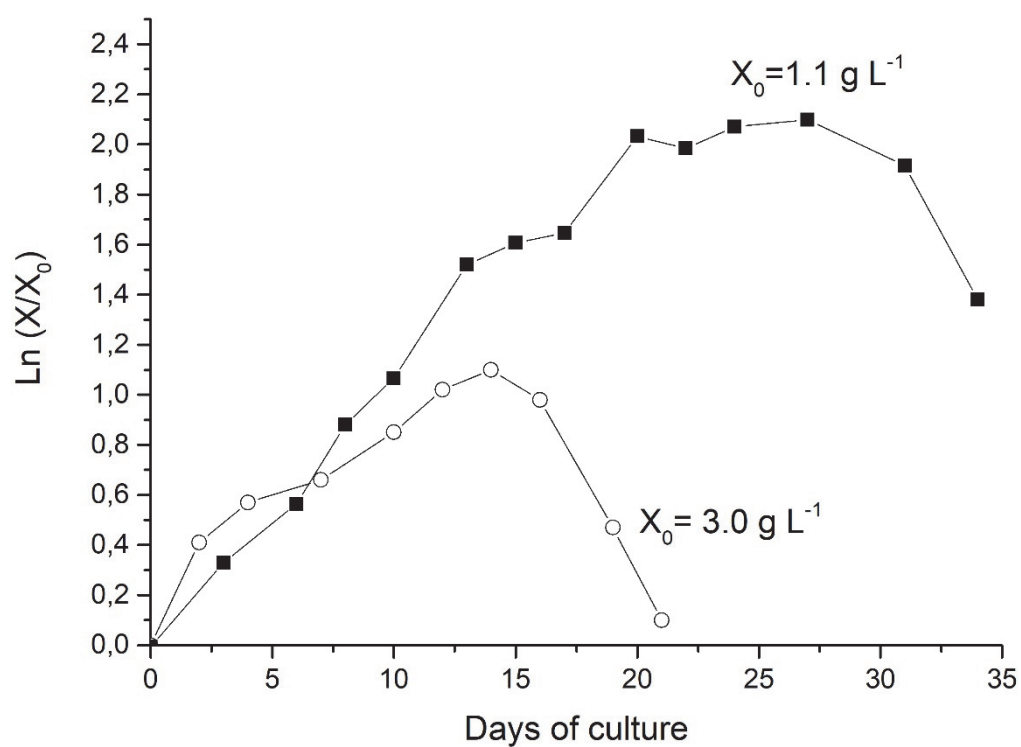


Figure S1. Growth curves (dry weight) of the suspension cell culture of *Polyscias fruticosa* in 250 ml flasks plotted in semi-logarithmic coordinates. X_0 – initial dry cell biomass concentration (inoculum size); X – dry cell biomass concentration at time of sampling.

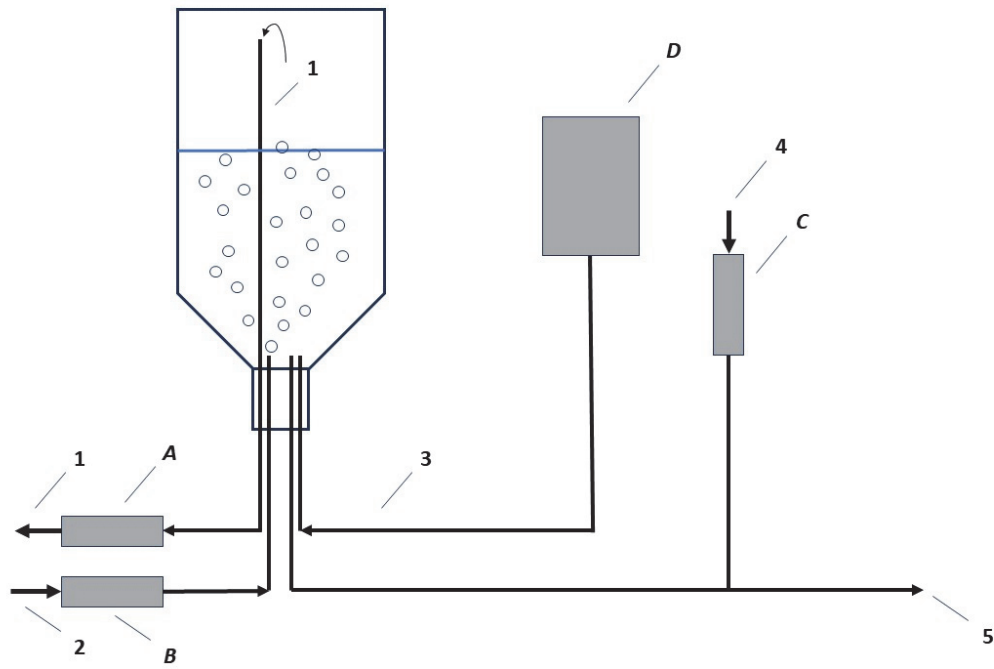


Figure S2. Principle scheme of a bubble-type bioreactor used for the cultivation of *Polyscias fruticosa* cell suspension. 1 – exhaust air, 2 – sterile compressed air input (sparger diameter 6 mm), 3 – sterile nutrient medium input, 4 – sterile compressed air input for clearing sample collection pipeline, 5 – pipeline for collecting cell suspension samples. A, B, C – air sterilization filters; D – container with sterile liquid medium. Bioreactor dimensions: larger diameter – 225 mm, height – 480 mm, mouth outer/inner diameter – 60/46 mm.