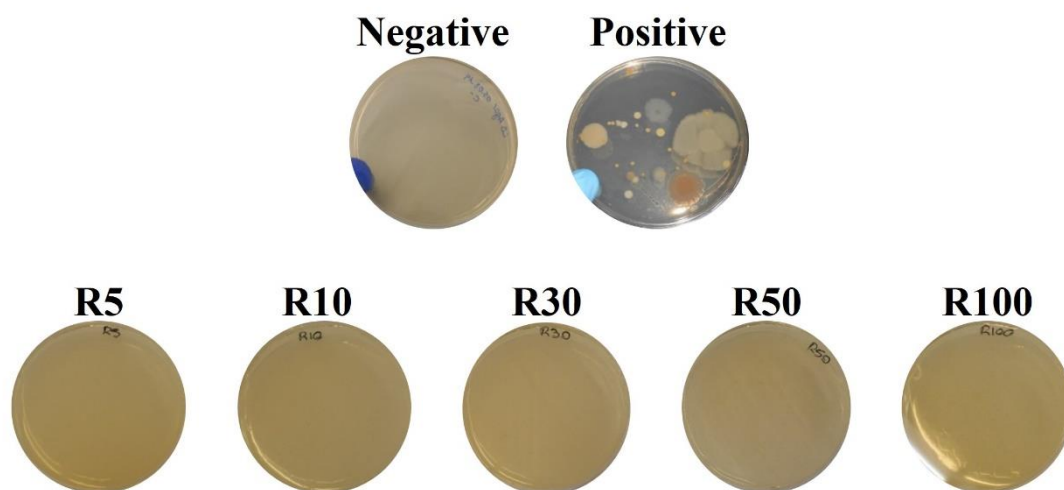


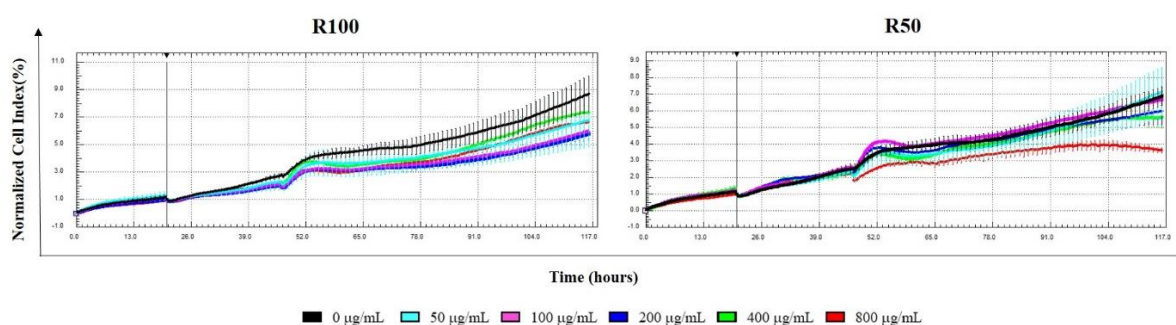
## Supplementary Material

### *Absence of microorganism contamination in the *S. muticum* fractions*

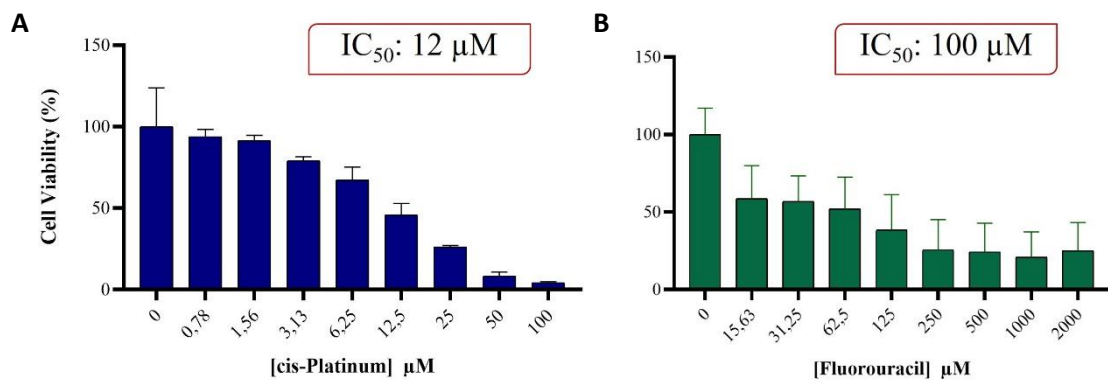
An aliquot of the samples was seeded in LB agar LENNOX (Condalab, Spain) plates and incubated at 37 °C for 24 – 72 hours to observe any potential bacterial or fungal growth. As negative and positive controls, an aliquot of endotoxin-free and contaminated water, respectively, were used.



**Figure S1.** Characterization of the potential bacterial growth in LB agar plates of an aliquot of R100 (>100 kDa), R50 (50-100 kDa), R30 (30-50 kDa), R10 (10-30 kDa), R5 (5-10 kDa). The plates show the absence of colonies after 72 hours of incubation with the fractions and the negative control, while in the positive control several colonies are clearly observed.



**Figure S2.** Kinetics of the normalized cell index of MCF-7 cells after incubation with different concentrations of R50 and R100. The vertical black line represents the time where the extracts were added to the cells.



**Figure S3.** Percentage of cell viability of MCF-7 cells after 72 hours of incubation with different concentrations of **A**) cis-Platinum (cis-Pt) and **B**) 5-fluorouracil (5-FU). The  $IC_{50}$  was calculated for both compounds and is shown in the graphics.