

Figure S1. Examples of cells embedded in the matrix (**A**) and cells on the top of the matrix cultured for 5 days in Cultrex BME (**B**). Note the absence of spheroid formation in cells embedded in the matrix method. Bar = 100 μ m.

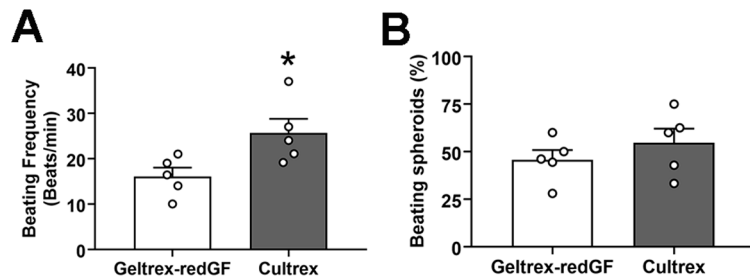


Figure S2: (**A**) Ventricular cells grown in Geltrex BME matrix with reduced growth factors (Geltrex-redGF) revealed significantly lower beating frequencies when compared to cells grown in regular Cultrex BME (without reduced growth factors) after day 8 in culture, (**B**) Percentage of beating spheroid cell bodies did not differ significantly between cells grown in Geltrex-redGF and Cultrex BME matrices, N = 5 independent experiments, each bar represents mean \pm SEM. * $p < 0.05$, Student's unpaired t -test.