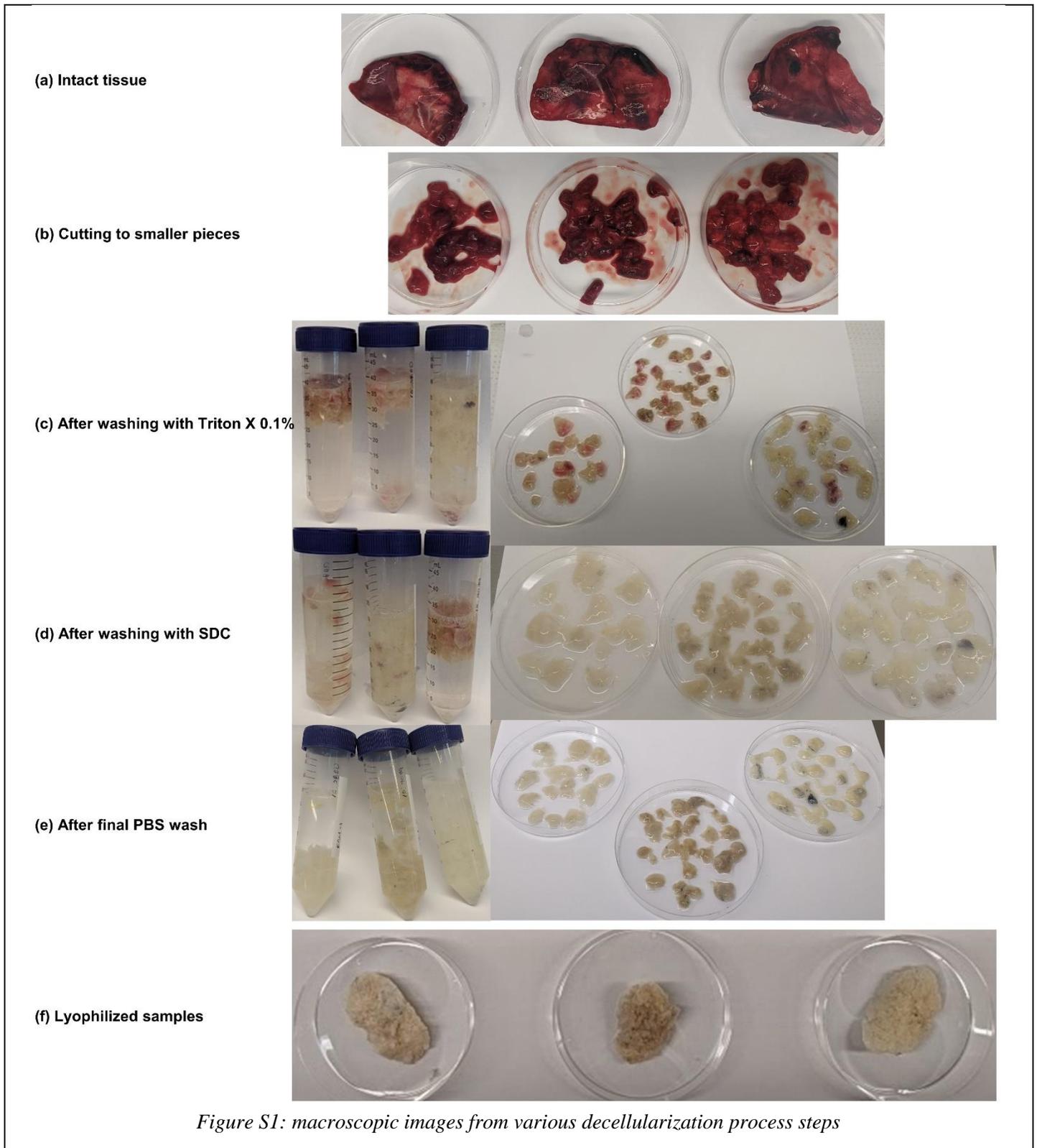


A robust protocol for decellularized human lung bioink generation amenable to 2D and 3D lung cell culture



	Slope	$t_{1/2}$	$t_{95\%}$	t_{lag}
10.0 mg/mL vs. 12.5 mg/mL	ns	ns	ns	ns
10.0 mg/mL vs. 15.0 mg/mL	ns	ns	ns	ns
10.0 mg/mL vs. 17.5 mg/mL	ns	ns	ns	ns
10.0 mg/mL vs. 20.0 mg/mL	*	**	****	**
12.5 mg/mL vs. 15.0 mg/mL	ns	ns	ns	ns
12.5 mg/mL vs. 17.5 mg/mL	ns	ns	**	*
12.5 mg/mL vs. 20.0 mg/mL	*	*	****	**
15.0 mg/mL vs. 17.5 mg/mL	ns	ns	*	ns
15.0 mg/mL vs. 20.0 mg/mL	**	**	****	**
17.5 mg/mL vs. 20.0 mg/mL	ns	ns	**	ns

Figure S2: A summary of statistical analysis and p-values for calculated turbidimetric gelation kinetics parameters in Table 1. * $p \leq 0.05$, ** $p \leq 0.01$, and **** $p \leq 0.0001$

	G'	G''
10.0 mg/mL vs. 12.5 mg/mL	ns	ns
10.0 mg/mL vs. 15.0 mg/mL	ns	ns
10.0 mg/mL vs. 17.5 mg/mL	*	*
10.0 mg/mL vs. 20.0 mg/mL	**	**
12.5 mg/mL vs. 15.0 mg/mL	ns	ns
12.5 mg/mL vs. 17.5 mg/mL	ns	ns
12.5 mg/mL vs. 20.0 mg/mL	*	*
15.0 mg/mL vs. 17.5 mg/mL	ns	ns
15.0 mg/mL vs. 20.0 mg/mL	ns	*
17.5 mg/mL vs. 20.0 mg/mL	ns	ns

Figure S3: A summary of statistical analysis and p-values for G' and G'' in Figure 3e. * $p \leq 0.05$ and ** $p \leq 0.01$.

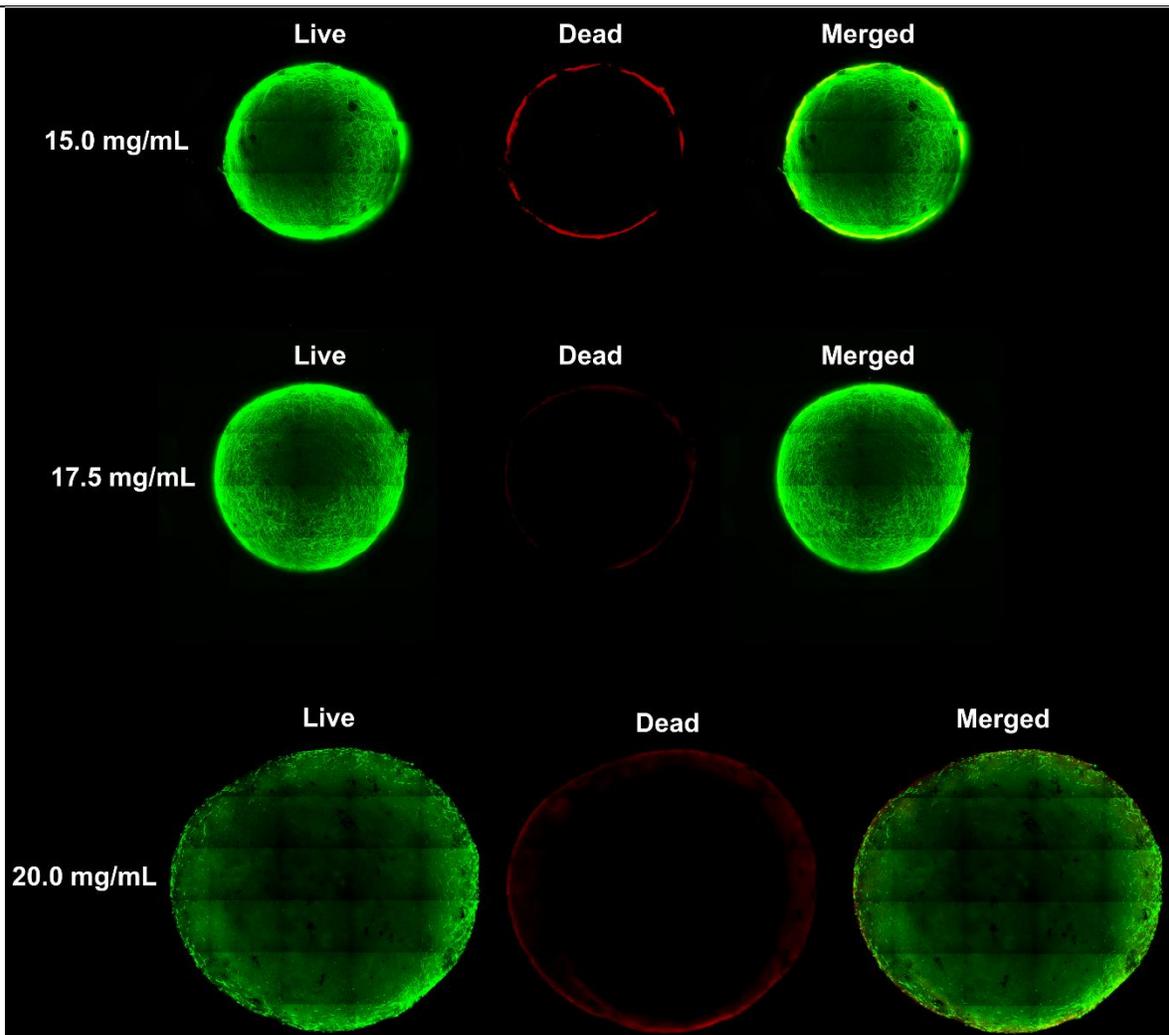


Figure S4: Viability assays of cells incubated inside dECM hydrogels using the live and dead assay.

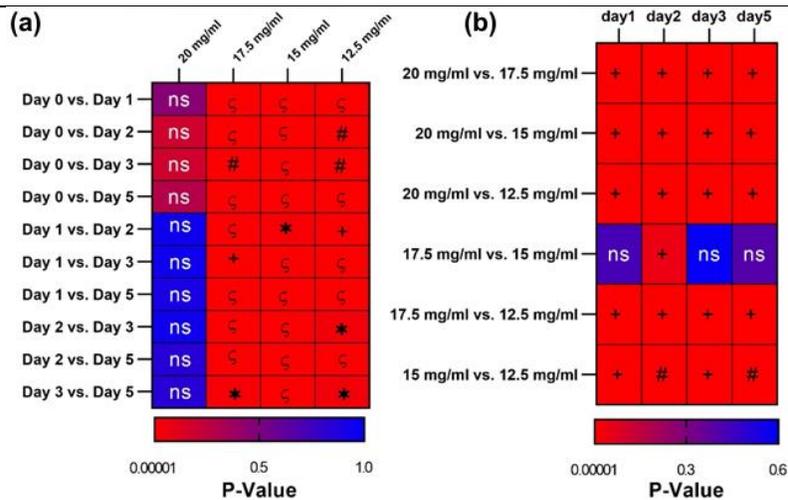


Figure S5: (a) heat map of the p-values for each hydrogel over five days: this graph shows if the change in the diameter of the hydrogel is significantly changed over time and (b) heat map of the p-values analysis for hydrogels compared to each other over five days of 3D culture. P-Values: * denotes for p values smaller than 0.05, ζ denotes for p values smaller than 0.005, # denotes for p values smaller than 0.001, + denotes for p values smaller than 0.0001.