

Supplementary table 1: Analysis of linear regressions of pressure factor results.

Nozzle size	167 μm	257 μm	332 μm	446 μm	551 μm	All nozzle sizes
Best-fit values						
Slope	0.04847	-0.0699	0.1742	-0.244	-0.03507	-0.03687
Y-intercept	75.16	83.33	87.01	90.29	81.04	82.96
X-intercept	-1551	1192	-499.4	370	2311	2250
1/slope	20.63	-14.31	5.74	-4.098	-28.52	-27.12
Standard error						
Slope	0.02057	0.01503	0.02008	0.03175	0.03486	0.03408
Y-intercept	0.8302	0.6659	0.7151	0.999	1.258	1.333
95% confidence interval						
Slope	0.006340 to 0.09061	-0.1013 to -0.03854	0.1308 to 0.2176	-0.3148 to -0.1733	-0.1175 to 0.04736	-0.1046 to 0.03087
Y-intercept	73.46 to 76.86	81.94 to 84.72	85.46 to 88.55	88.06 to 92.51	78.06 to 84.01	80.31 to 85.61
X-intercept	-12093 to -812.7	834.3 to 2132	-675.5 to -393.5	293.1 to 509.6	714.5 to +infinity	815.1 to +infinity
Goodness of fit						
R squared	0.1655	0.5194	0.8527	0.8552	0.1263	0.01343
Sy.x	2.078	1.695	1.294	1.512	0.7557	5.964
Slope significant						
F	5.554	21.62	75.25	59.06	1.012	1.171
DFn, DFd	1, 28	1, 20	1, 13	1, 10	1, 7	1, 86
P value	0.0257	0.0002	<0.0001	<0.0001	0.3479	0.2823
Dev. from zero?	Significant	Significant	Significant	Significant	Not significant	Not significant
Data						
Number of X values	40	68	88	104	116	232
Max. number of Y repetitions	3	4	3	3	3	4
Total number of values	30	22	15	12	9	88

All regression data were calculated using GraphPad Prism 8. Regressions were used to interpolate means and error-bars for all instances of p_{in} in the *ex vivo* work.