

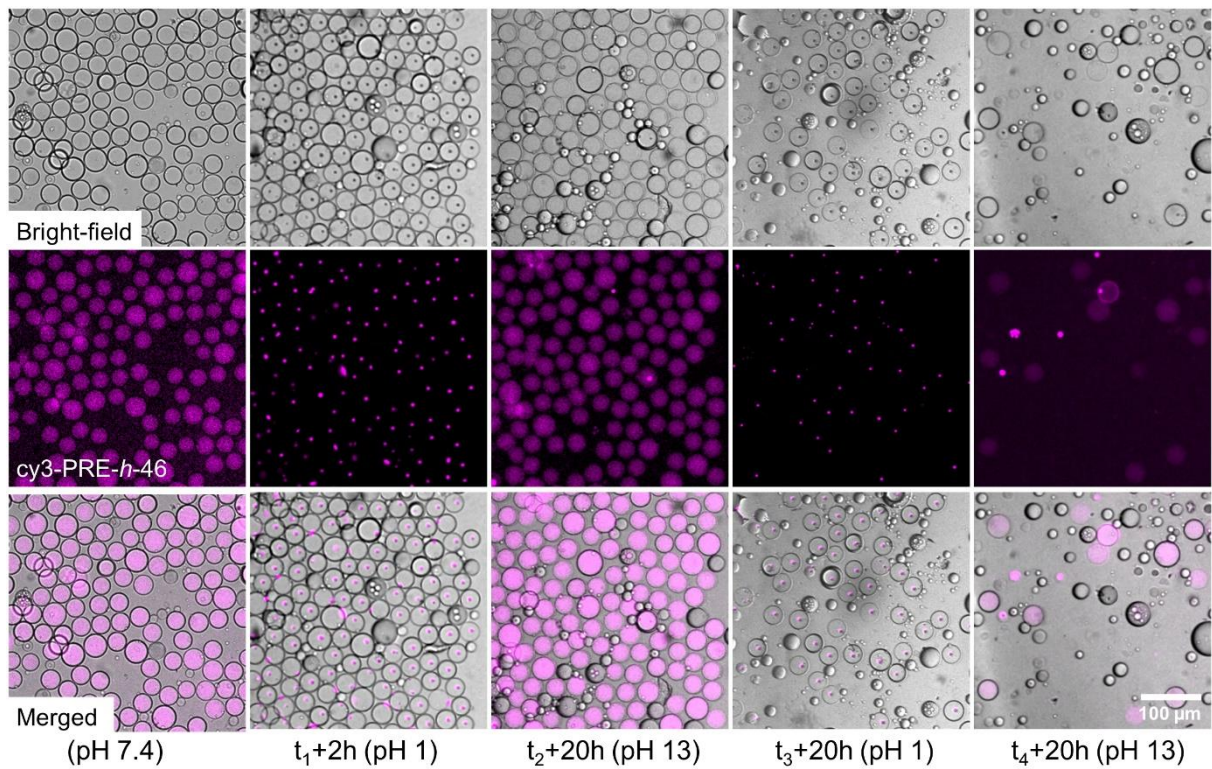
Supplementary Information

Elastin-Like Polypeptide Coacervates as Reversibly Triggerable Compartments for Synthetic Cells

Chang Chen¹, Ketan A. Ganar¹, Robbert J. de Haas¹, Nele Jarnot¹, Erwin Hogeveen¹, Renko de Vries¹,
Siddharth Deshpande^{1§}

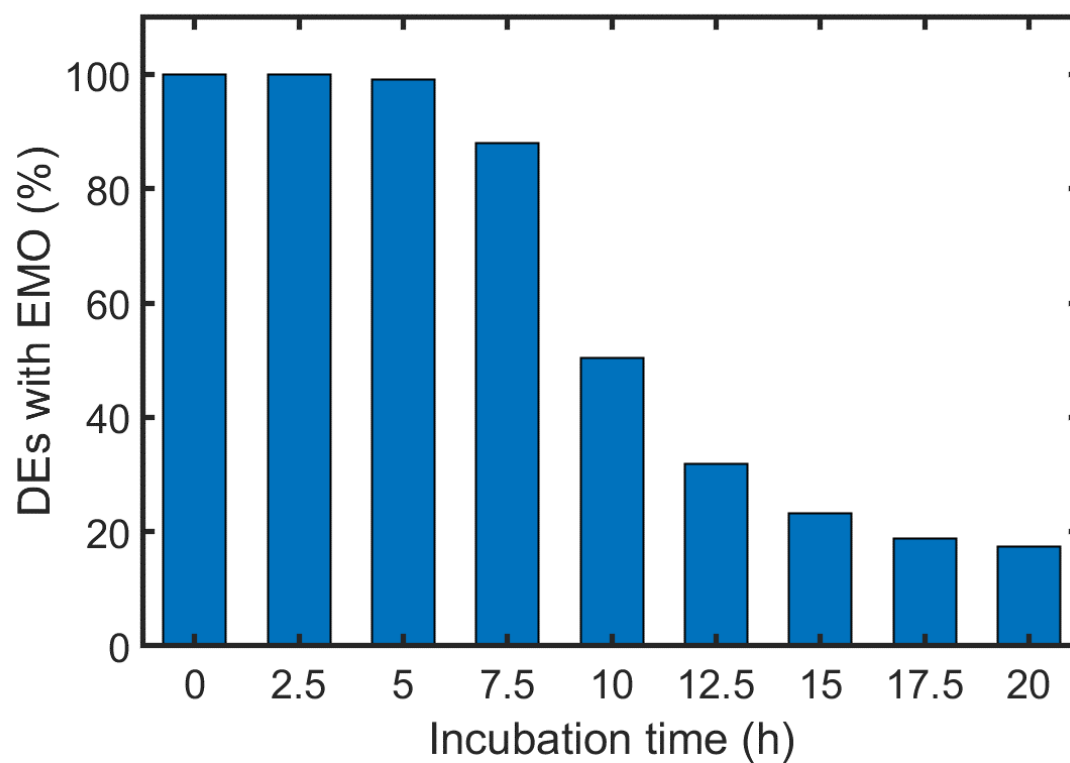
¹Laboratory of Physical Chemistry and Soft Matter, Wageningen University and Research, Stippeneng
4, 6708 WE Wageningen, The Netherlands

§ corresponding author; email: siddharth.deshpande@wur.nl



Supplementary Figure 1. pH-triggered two consecutive EMO formation-dissolution cycles within DEs.

Representative bright-field, fluorescence, and merged images of several DEs showing two pH-triggered EMO formation-dissolution cycles; t_1 , t_2 , t_3 , and t_4 correspond to the time points of adding pH 1 feed (first cycle), pH 13 feed (first cycle), pH 1 feed (second cycle), and pH 13 feed (second cycle) respectively.



Supplementary Figure 2. pH-triggered dissolution of EMOs over time. Percentage of DEs containing EMOs at different time points upon pH 13 trigger ($n > 300$ for each time point). A steep decrease in EMOs can be seen after 7.5 hours.