Supplemental Data:

**Figure S.1.**: Live-Dead Analysis of encapsulated cells.

**Figure S.2.**: (A) Pictures and optical properties of THEOS-PEG gels prepared with different PEG concentrations using (B) 2 kDa 4-arm PEG, and (C) 0.6 kDa linear PEG. Drop in transmittance observed at all compositions at 560 nm is due to absorbance by cell culture media.

**Figure S.3.**: Time-lapse images of encapsulated HFF cells over time showing complete inhibition of proliferation

**Table S.1.**: Changes in asymmetric stretching vibrations of IR spectra during encapsulation.
A) Silica Gel

Live Cells

50 µm

Calcein
PI(-)

50 µm

Dead Cells

PI (+)

B) SPEG Gel

Live Cells

50 µm

Calcein
PI(-)

50 µm

Dead Cells

PI (+)

Figure S.1., Reategui et al.
A) 

B) 2kDa 4-arm PEG

C) 0.6kDa linear PEG

Figure S.2., Reategui et al.
Table S.1., Reategui et al.