SUPPORTING INFORMATION

Liposome-enveloped molecular nanogels

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Figure S1. Cryo-TEM images of gel@liposome particles.

Figure S2. Pyranine pH calibration curve using 1 µM solutions in phosphate buffer 0.1M at pH 5-11.

Figure S3. Normalized fluorescence excitation spectra ($\lambda_{em} = 511$ nm) of a gelator@liposomes sample (solid line, pH 8.2), gel@liposome particles (red dotted line, pH 6.5) and nanogel particles (black dotted line, pH 6.4).
**Figure S4.** Percentage of doxorubicin kept in the dialysis membrane after the indicated times of dialysis for doxorubicin@liposomes and doxorubicin@lipogels.

**Figure S5.** Number averaged size distribution of a representative sample of gel@liposome particles obtained by DLS analysis: immediately after preparation (black) and one month later kept at 4°C (red line).

**Figure S6.** Size distribution of the particles obtained from TEM and cryo-TEM images determined with ImageJ software. The selected micrographs can be seen in Figures 1, 3, 4 and S1. Mean particle size indicated for each histogram.