Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary Information

Cytotoxicity evaluation of sodium lauryl sulfate in a paper-based 3D cell culture system

Young Ju Lee[a], Yong Jin Ahn[b], Gi-Ja Lee[a,b,*]

[a]Dept. of Biomedical Engineering, College of Medicine, Kyung Hee University, Seoul 02447, Korea

[b]Dept. of Medical Engineering, Kyung Hee University Graduate School, Seoul 02447, Korea

* To whom correspondence should be addressed. E-mail: gjlee@khu.ac.kr

Table S1. Characteristics of Whatman® filter paper

No.	Pore size (μm)	Wet burst (psi)	Thickness (μm)
Grade 1	11	0.25	180 μm
Grade 2	8	0.29	190 μm
Grade 114	25	8.9	190 μm

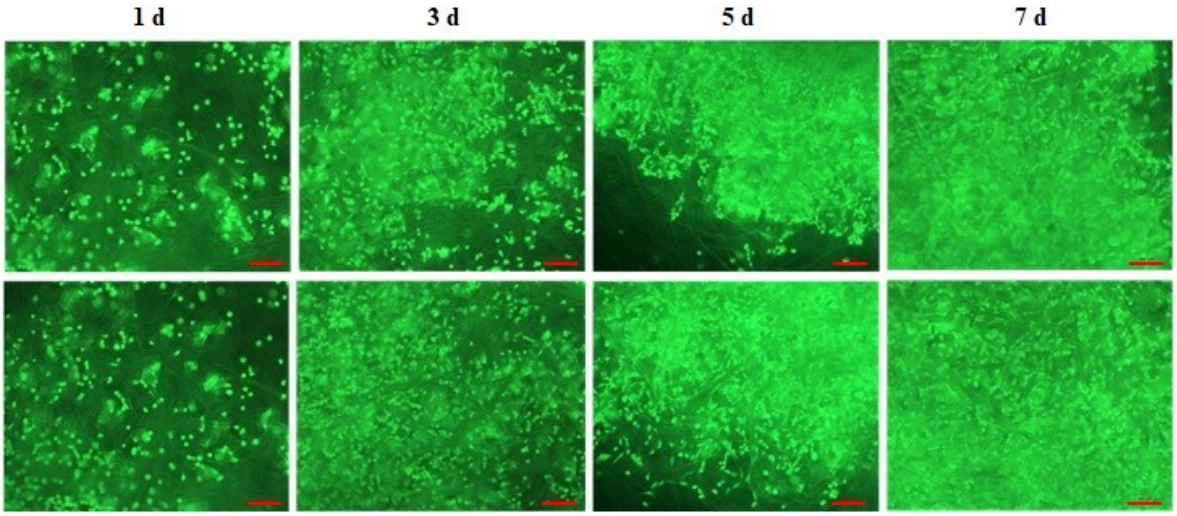

Figure S1. Representative fluorescence images of Live/Dead staining of L929 cells (3×10^2 cells/zone) cultured on the grade 1 paper for 1, 3, 5 or 7 d. The scale bar represents 100 μm.

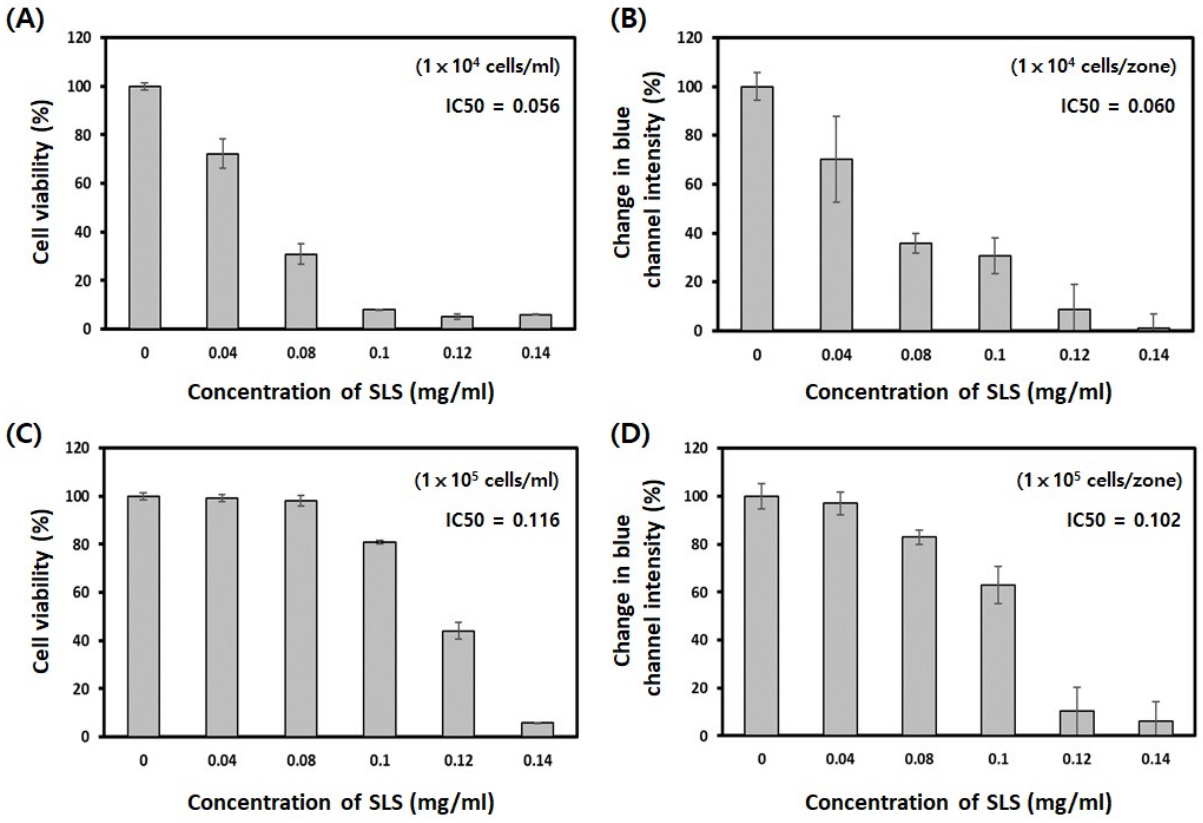

Figure S2. Toxicity evaluation in (A, C) monolayer 2D culture and (B, D) paper-based 3D culture of L929 cells with different cell numbers using a colorimetric analysis. Mouse L929 fibroblast cells were seeded with (A, B) 1×10^4 cells/ml or zone and (C, D) 1×10^5 cells/ml or zone, and were treated with various concentrations of SLS and incubated for 24 h. Cell cytotoxicity was measured using the WST assay.