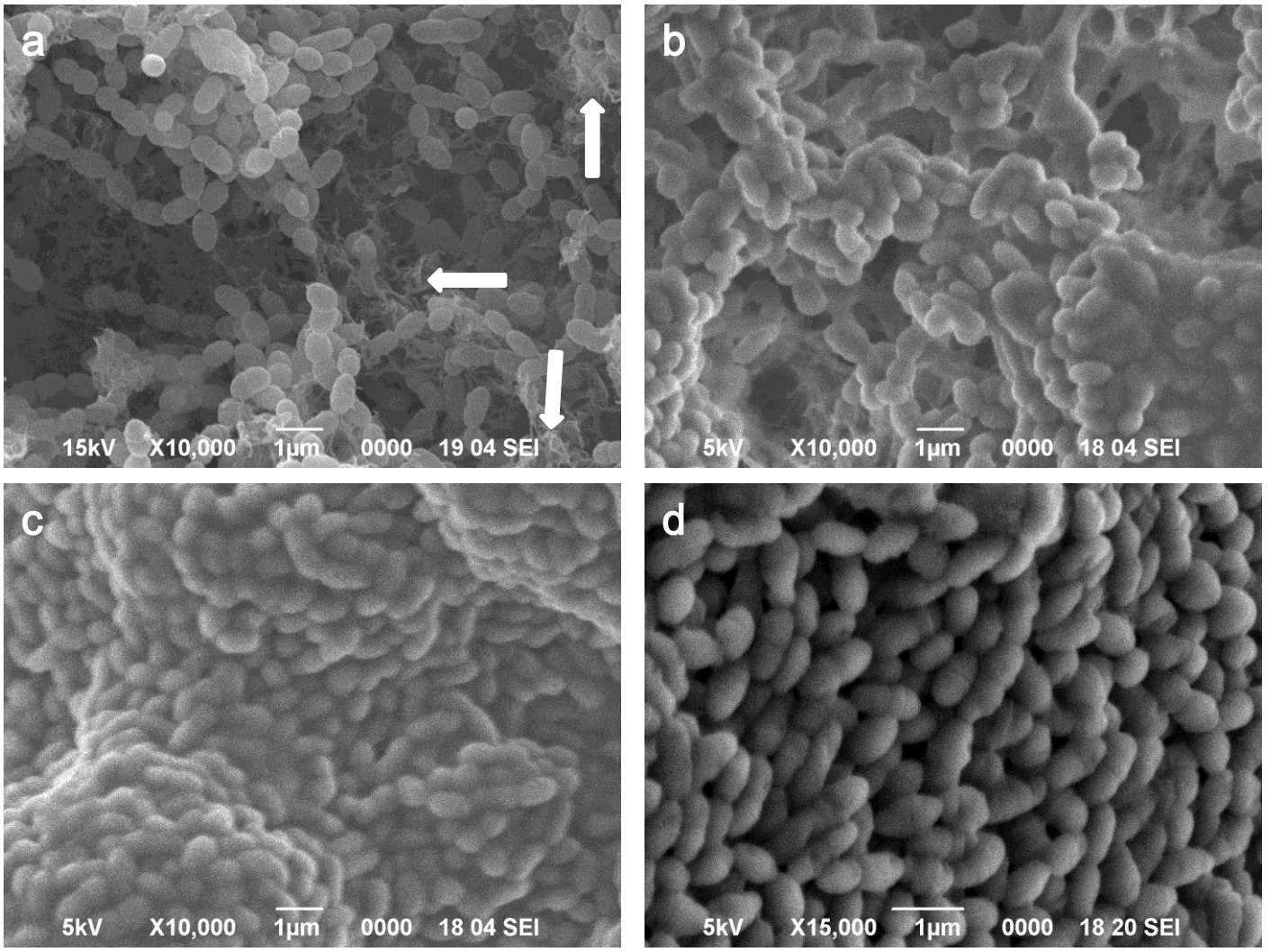

Figure S1 High-magnification images of *S. mutans* biofilm using IL.

(a): control using conventional method at ×10,000, (b): 1% [Ch][Lac], (c): 10% [C_2mim][AcO] at ×10,000 and (d): 10% [Ch][Lac] at ×15, 000. Clear images were obtained at high magnifications. Bars = 1 μm. Arrows indicate the fibriform extracellular matrix like structure.

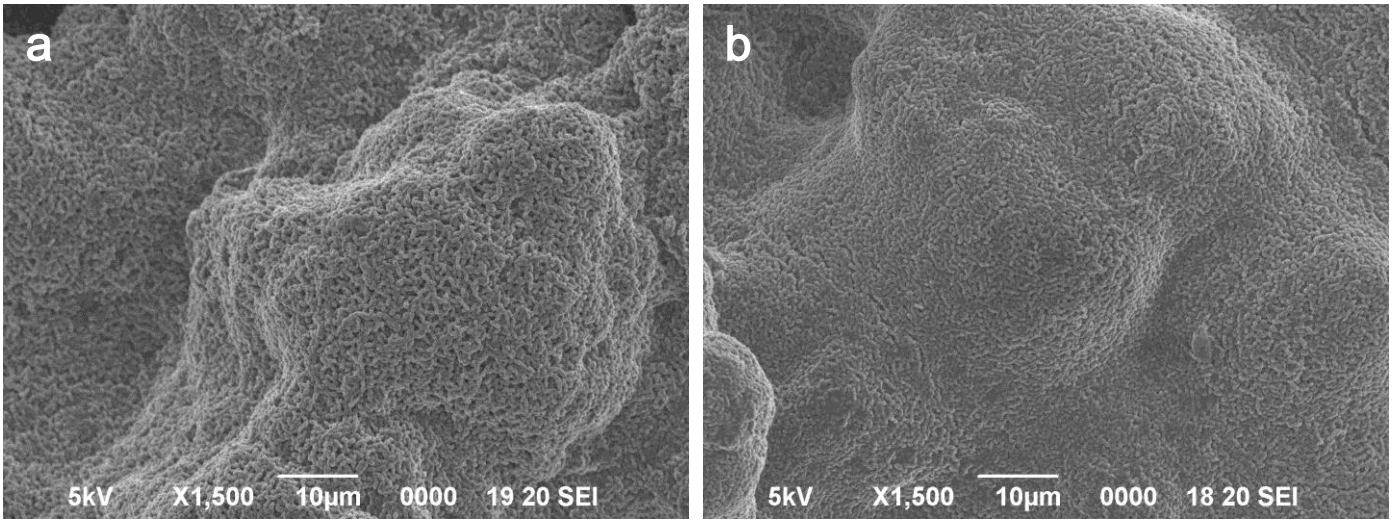

Figure S2 SEM images of *S. mutans* biofilms using glutaraldehyde and IL. SEM images of *S. mutans* biofilms pretreated with glutaraldehyde and 10% [Ch][Lac] (a) and with 10% [Ch][Lac] (control) (b). There were no differences on SEM images between glutaraldehyde-treated biofilm and control. Bars = 10 µm.

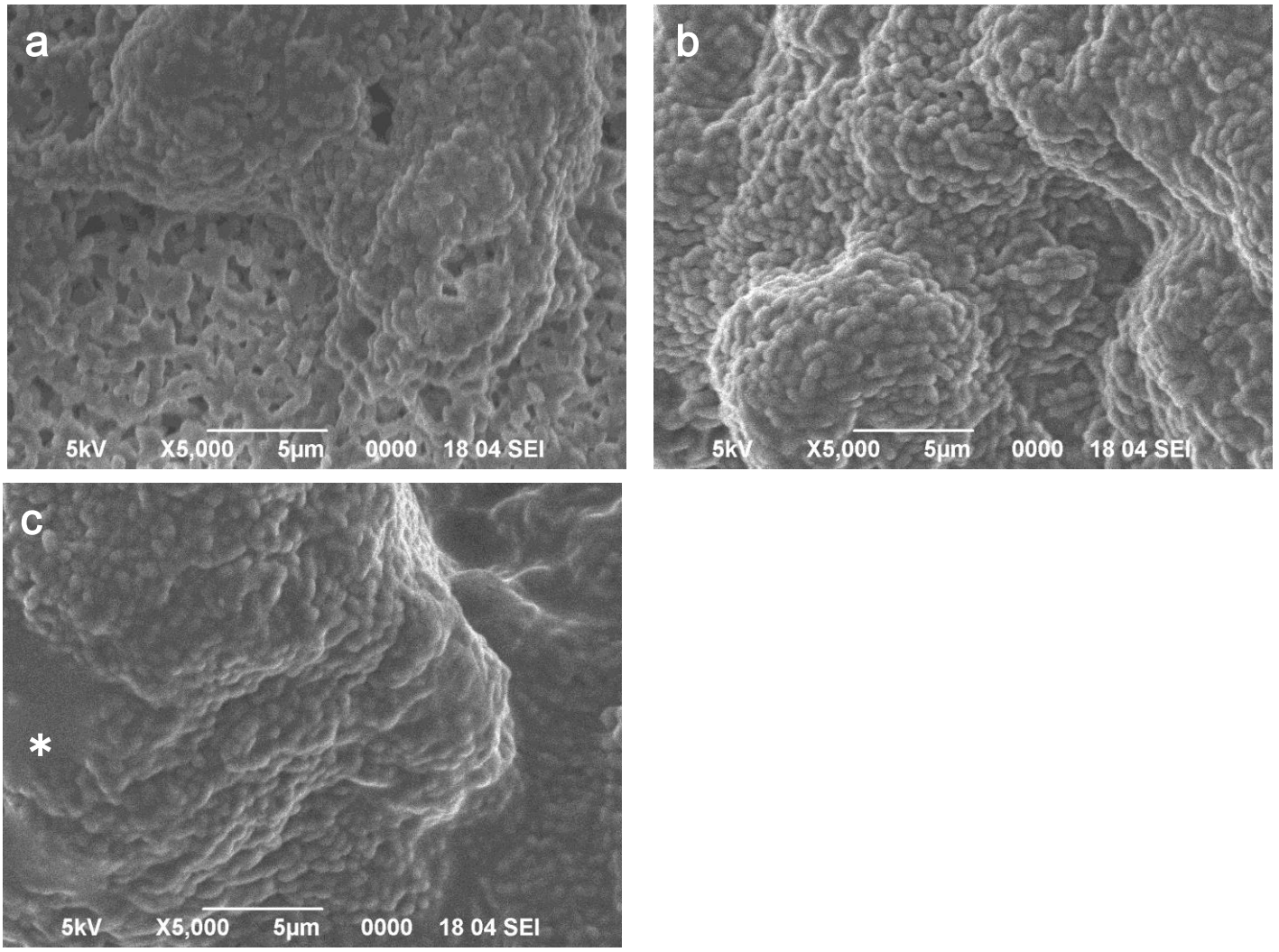

Figure S3 SEM images of *S. mutans* biofilm using IL of various concentrations. [C_2mim][AcO] was used at (a): 1%, (b): 10% and (c):20%. Asterisk indicates the accumulated IL. Bars = 5 µm.

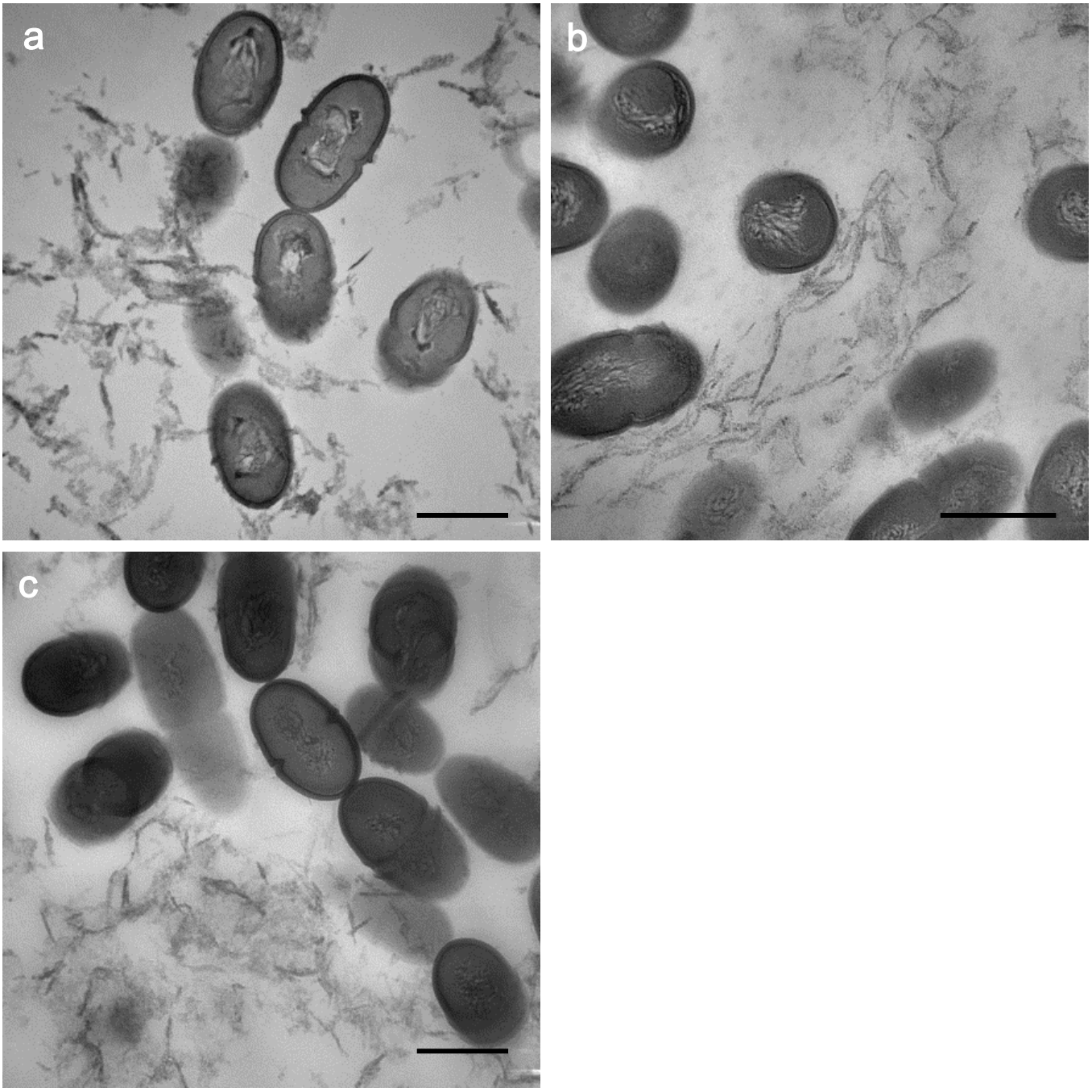

Figure S4 High-magnification images of *S. mutans* biofilm by TEM.

(a): control, (b): 10% [Ch][Lac] and (c): 10% [C_2mim][AcO]. Compared with the control biofilm, there was no difference in the images of the bacterial cell membrane, cell wall and cytoplasm for the IL-treated biofilm. Bars = 500 nm.