pathogens

MDPI

Supplementary Materials

Novel Giomers Incorporated with Antibacterial Quaternary Ammonium Monomers to Inhibit Secondary Caries

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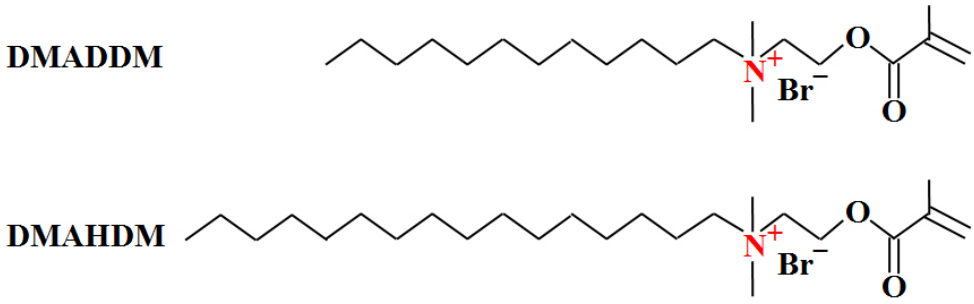


Figure S1. The molecular structures of DMADDM and DMAHDM.

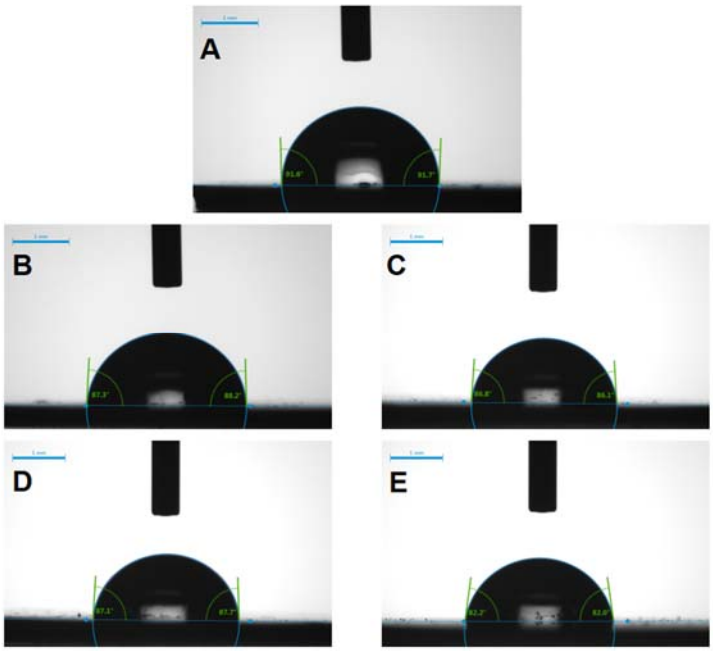


Figure S2. Contact angle. (A-E) Representative images of the control (A), 1.25% DMADDM (B), 2.5% DMADDM (C), 1.25% DMAHDM (D) and 2.5% DMAHDM (E). Scale bars = 1 mm.

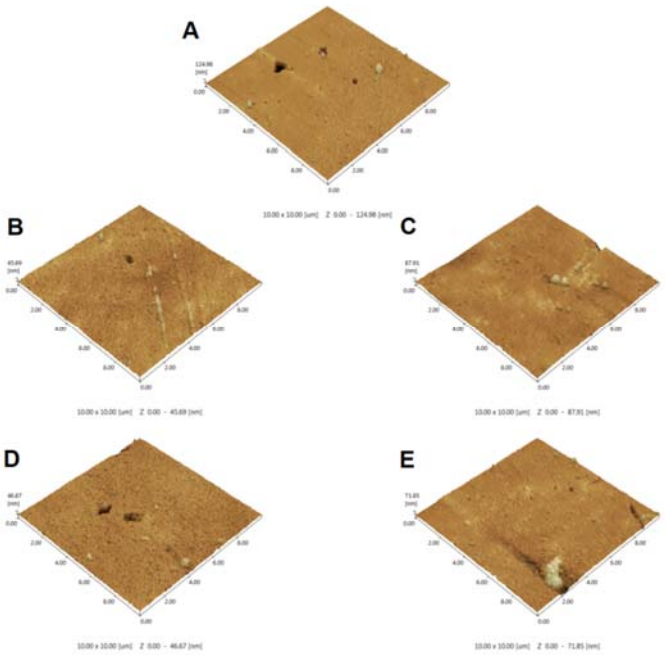


Figure S3. Surface roughness. (A-E) Representative 3D images of the control (A), 1.25% DMADDM (B), 2.5% DMADDM (C), 1.25% DMAHDM (D) and 2.5% DMAHDM (E).

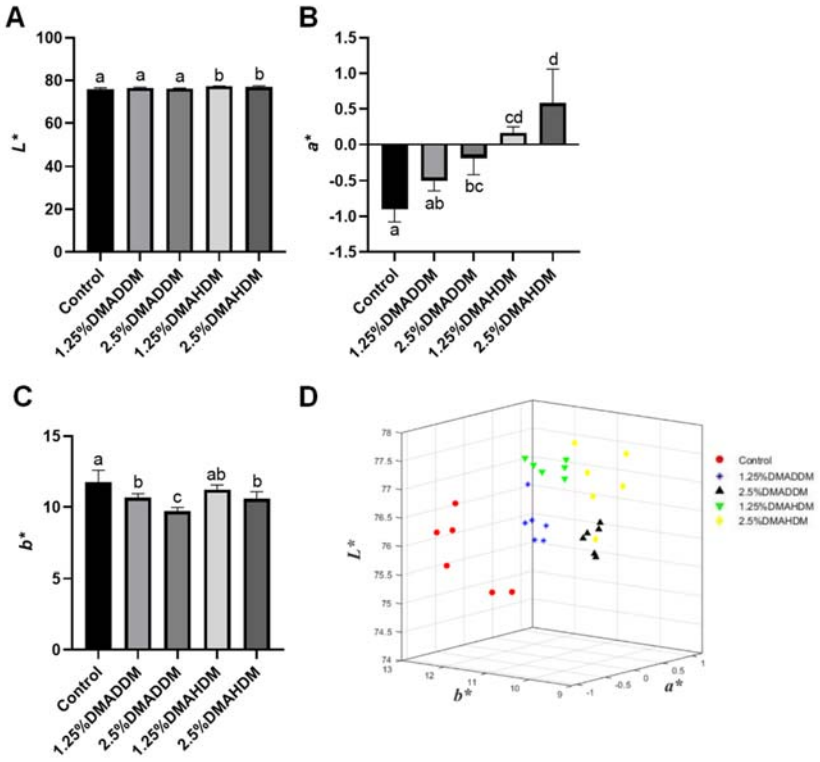


Figure S4. Colorimetric analysis. (A-C) Values of the L^* (A), a^* (B), b^* (C). Data are presented as mean ± SD; n = 6. In each plot, bars with the same letter(s) indicate no significant difference between the groups ($p > 0.05$). Bars without the same letter(s) indicate significant difference between the groups ($p < 0.05$). (D) The three-dimensional scatter diagram (L^*, a^*, b^*).

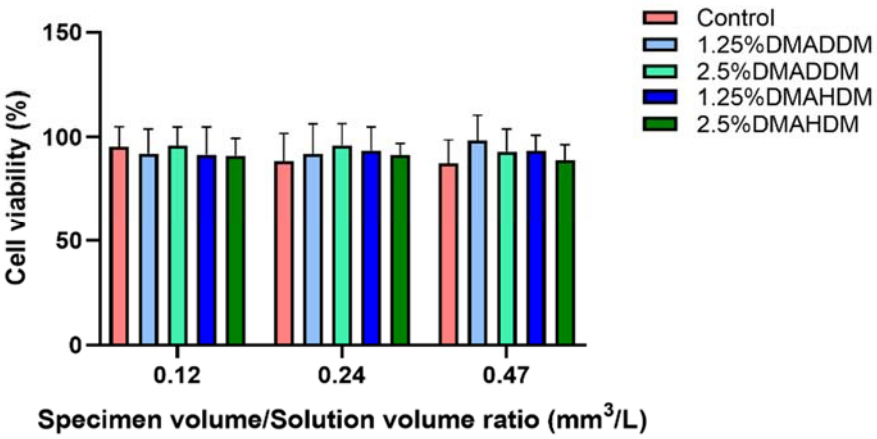


Figure S5. The cytotoxicty test of the eluants against HOK cells. Data are presented as mean ± SD; n = 6. There were no significant difference in all groups ($p > 0.05$).

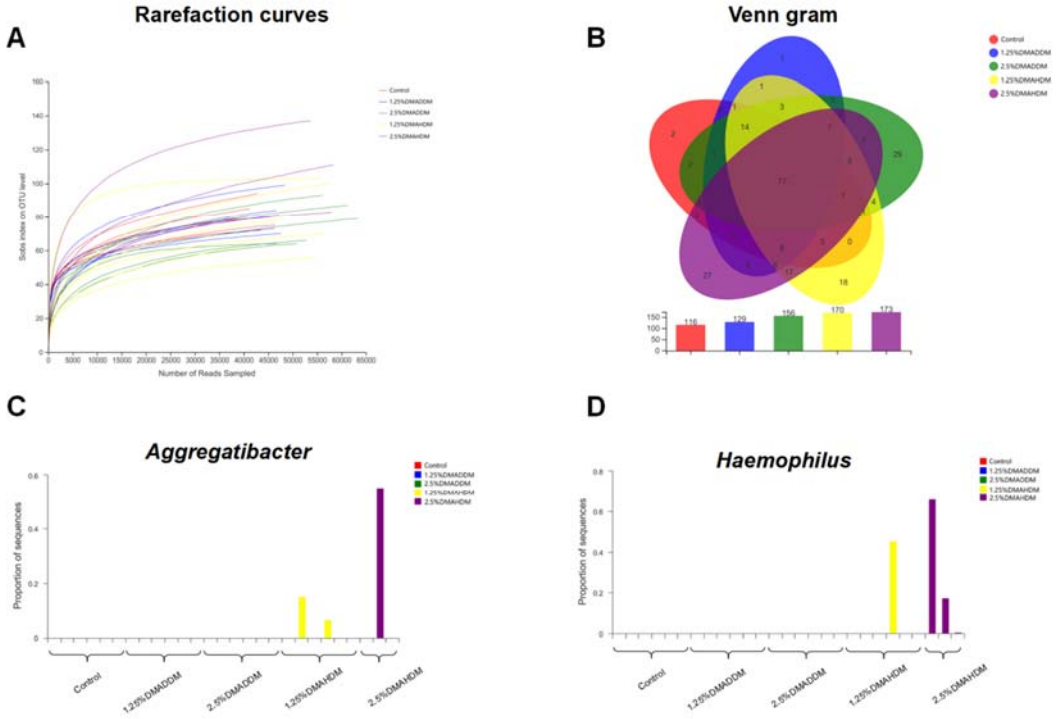


Figure S6. 16S r RNA sequencing. (A) Rarefaction curves. (B) Venn gram. (C,D) Proportion of *Aggregatibacter* (C) and *Haemophilus* (D) in each sample.

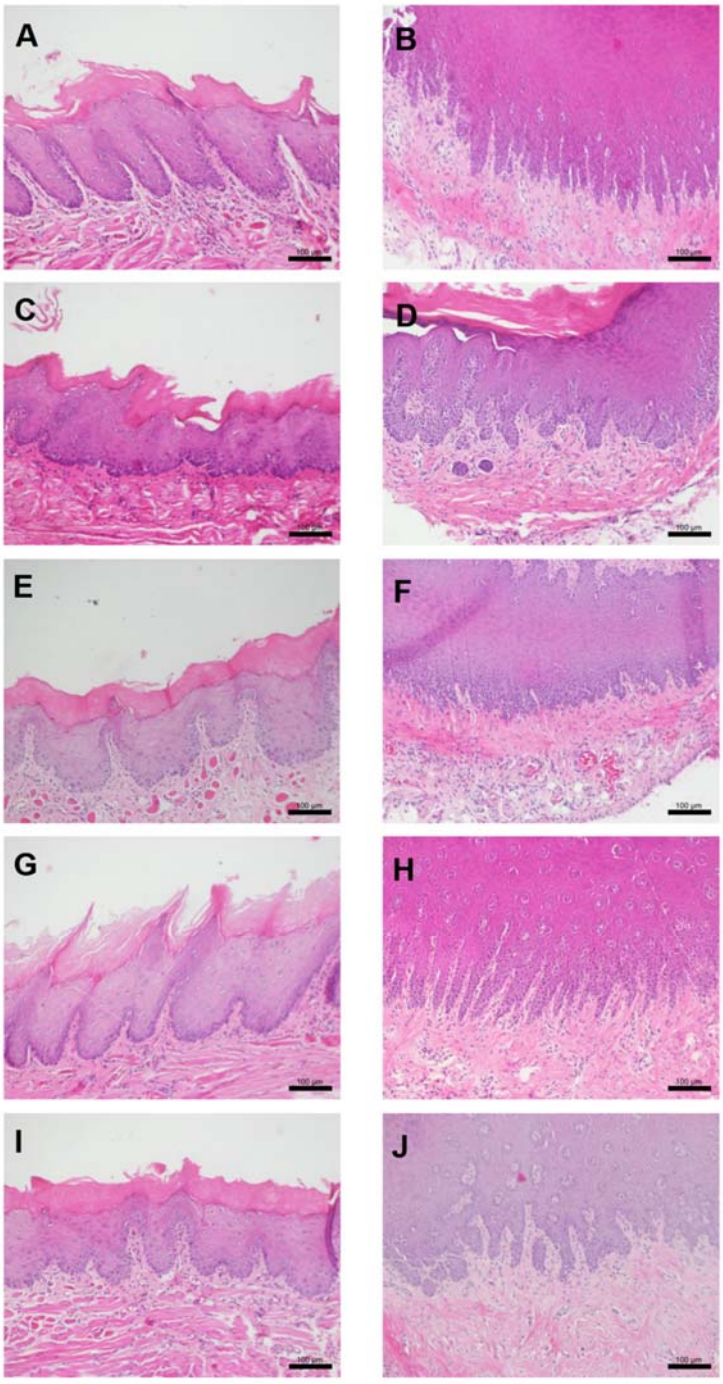


Figure S7. Representative histologic images of buccal mucosae: the control (A), 1.25% DMADDM (C), 2.5% DMADDM (E), 1.25% DMAHDM (G) and 2.5% DMAHDM (I). Representative histologic images of palatal mucosae: the control (B), 1.25% DMADDM (D), 2.5% DMADDM (F), 1.25% DMAHDM (H) and 2.5% DMAHDM (J). Scale bars = 100 μm.