CLAIMS

1. Oral care composition for alleviating dentin hyperesthesia, comprising a peptide consisting of an amino acid sequence of the following Formula 1:

K-Y-R1-R2-R3-R4-R5-R6-R7-R8 (Formula 1)

wherein R1 is arginine(R), lysine(K) or glutamine(Q);

R2 is arginine(R) or glutamine(Q);

R3, R4, and R5 are arginine(R) or lysine(K), respectively;

R6 is asparagine(N) or serine(S); and

R7 and R8 are lysine(K) or tyrosine(Y), respectively,

wherein said oral care composition includes 0.00005-0.00015 parts by weight of the peptide, 85-87 parts by weight of purified water, 1.7-2.9 parts by weight of surfactant, and 0.0045-0.0055 parts by weight of citric acid hydrate based on 100 parts by weight,

wherein said oral care composition forms a thin film on the surface of said dentin and induces remineralization on said surface of said dentin and dentinal tubule by binding with phosphate-calcium ions present in said dentinal tubules and in saliva.

2. The composition of claim 1, wherein said peptide is any one amino acid sequence of SEQ ID NOS: 1 to 96.

3. The composition of claim 1, wherein said oral care composition comprises 0.0545-0.555 parts by weight of cetylpyridinium chloride on 100 parts by weight.

4. The composition of claim 1, wherein said surfactant is poloxamer and/or polysorbate 20.

5. The composition of claim 1, wherein said surfactant includes 12-14% by weight of the poloxamer 407 and 86-88% by weight of the polysorbate 20.

6. The composition of claim 1, wherein said oral care composition includes 9-11 parts by weight of a humectant based on 100 parts by weight.

7. The composition of claim 6, wherein said humectant is D-sorbitol solution and/or concentrated glycerin.

8. The composition of claim 7, wherein said humectant comprises 45-55% by weight of said D-sorbitol solution and 45-55% by weight of said concentrated glycerin.

9. The composition as claimed in claim 1 for use in alleviating dentin hyperesthesia in a subject in need thereof, wherein the composition is to be administered to dentin surface of the subject.