Claims

1. Dental care product comprising 0.4-40 wt% mineral particles, the particles having a size of 0.01-50 μm, and 0.001-5 wt% of a protein capable of forming a protein matrix which is a hydrogel, wherein the dental care product comprises a fluorophore, wherein the protein is a self-assembling peptide having at least 60% sequence identity to a peptide consisting of any of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 or 19.

2. Dental care product according to claim 1, wherein said particles have a size of 1-25 μm, preferably, of 4-20 μm.

3. Dental care product according to any of the preceding claims, wherein said fluorophore is an amino acid residue of the protein, preferably Trp, wherein preferably 5% or more of the residues of the protein are Trp.

4. Dental care product according to any of the preceding claims, wherein the protein forms a hydrogel.

5. Dental care product according to any of the preceding claims, wherein said protein is a self-assembling peptide having at least 60% sequence identity to SEQ ID NO: 1 or SEQ ID NO:2.

6. Dental care product according to any of the preceding claims, wherein said protein is a self-assembling peptide comprising SEQ ID NO:1 or SEQ ID NO: 2.

7. Dental care product according to any of the preceding claims, wherein said mineral particles are calcium phosphate particles, calcium carbonate particles, kaolin, or titanium oxide particles, preferably, calcium phosphate particles.

8. Dental care product according to any of the preceding claims, wherein said mineral particles comprise hydroxyapatite.

9. Dental care product according to any of the preceding claims, wherein the dental care product is selected from the group comprising toothpaste, prophylactic paste, tooth powder, tooth polish, tooth gel, chewing gum, candy, lozenge, mouthwash, whitening strip, coated dental floss, coated toothbrush, paint-on gel, varnish, veneer, and tube, syringe or dental tray comprising a gel or paste.

10. Dental care product according to any of the preceding claims, comprising 0.5-40 wt% of said mineral particles and 0.02-1 wt%, preferably, 0.05wt%, of said matrix protein,

wherein the dental care product is a toothpaste or gel, which is optionally coated on dental floss or a toothbrush.

11. Dental care product according to any of the preceding claims, wherein 30-70 % of said mineral particles have a size of 200-600 nm.

12. Dental care product according to any of the preceding claims, wherein the product comprises hydrogenated starch hydrolysate, aqua, hydrated silica, PEG-8, cellulose gum, sodium monofluorophosphate, aroma, sodium saccharin, citric acid, sodium hydroxide, dicalcium phosphate, peptide consisting of the amino acid sequence of SEQ ID NO: 1, calcium glycerophosphate, sodium chloride, sodium sulfate, limonene, cinnamal, CI 42090and added hydroxyapatite particles.

13. Dental care product of any of the preceding claims for use in tooth whitening.

14. Dental care product of any of claims 1-12 for use in a cosmetic method of tooth whitening, said method comprising administering the dental care product of any of claims 1-12 to a tooth, wherein the composition is preferably administered one, two or three times a day on 1, 2, 3, 4, 5, 6, 7 or more days, preferably, daily.