CLAIMS

What is claimed is:

1. A hair treatment kit comprising:

(a) a shampoo composition comprising:

0.1% w/w to 7% w/w of a keratin protein composition comprising about 95% w/w alpha keratin and about 5% w/w gamma keratin, wherein at least 30% of the alpha keratin exhibits a peak average molecular weight (Mp) of at least 443 kDa, the gamma keratin exhibits a peak average molecular weight (Mp) of 15 kDa to 45 kDa, and wherein the keratin proteins are substantially or completely water-soluble and extracted from human hair;

1.0% w/w to 3.0% w/w of at least one biomimetic signal peptide;

1.0% w/w to 3.0% w/w red clover extract;

5.0% w/w to 7.0% w/w red algae extract;

0.1% w/w to 5.0% w/w sodium hyaluronate,

wherein the shampoo composition has a pH between 4.5 and 5.5;

(b) a conditioner composition comprising:

1.0% w/w to 2.0% w/w of a probiotic, wherein the probiotic is Saccharomyces lysate extract;

0.1% w/w to 7.0% w/w of at least one biomimetic signal peptide;

1.0% w/w to 3.0% w/w of a keratin protein composition comprising about 95% w/w alpha keratin and about 5% w/w gamma keratin, wherein at least 30% of the alpha keratin exhibits a peak average molecular weight (Mp) of at least 443 kDa, the gamma keratin exhibits a peak average molecular weight (Mp) of 15 kDa to 45 kDa, and wherein the keratin proteins are substantially or completely water-soluble and extracted from human hair; and

(c) a density treatment composition comprising:

0.1% w/w to 7.0% w/w of at least one biomimetic signal peptide;

about 1.0% w/w of a probiotic, wherein the probiotic is Saccharomyces lysate extract;

5.0% w/w to 7.0% w/w Larix europaea wood extract; and

1.0% w/w to 3.0% w/w of a keratin protein composition comprising about 95% w/w alpha keratin and about 5% w/w gamma keratin, wherein at least 30% of the alpha keratin exhibits a peak average molecular weight (Mp) of at least 443 kDa, the gamma keratin exhibits a peak average molecular weight (Mp) of 15 kDa to 45 kDa, and wherein the keratin proteins are substantially or completely water-soluble and extracted from human hair.

2. The hair treatment composition of claim 1, wherein the keratin protein composition comprises 95% w/w alpha keratin and 5% w/w gamma keratin.

3. The hair treatment composition of claim 1, wherein at least 30% of the alpha keratin exhibits a peak average molecular weight (Mp) of at least 443kDa.

4. The hair treatment composition of claim 1, wherein the gamma keratin exhibits a peak average molecular weight (Mp) of from at least 15kDa to 45kDa.

5. The hair treatment kit of claim 1, wherein the at least one biomimetic signal peptide in each of the shampoo composition, the conditioner composition, and the density treatment composition is independently selected from the group consisting of acetyl tetrapeptide-3, biotinoyl tripeptide-1, tripeptide-1, acetyl hexapeptide-8, acetyl dipeptide-1, caproyl tetrapeptide-3, carnosine, glutathione, palmitoyl oligopeptide, palmitoyl tetrapeptide-7, acetyl tetrapeptide-5, palmitoyl hexapeptide-14, pentapeptide-3, nonapeptide-1, acetyl hexapeptide, hexapeptide-11, hexanoyl dipeptide-3, acetyl octapeptide-3, palmitoyl tripeptide-5, palmitoyl dipeptide-5, palmitoyl dipeptide-6, acetyl tetrapetide-2, and myristoyl pentapeptide-17.

6. The hair treatment kit of claim 5, wherein the at least one biomimetic signal peptide in each of the shampoo composition, the conditioner composition, and the density treatment composition is acetyl tetrapeptide-3.

7. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively increase the number of anagen phase hairs by about 27.8% after 180 days of daily administration.

8. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively increase the anagen to telogen hair ratio by about 54.0% after 180 days of daily administration.

9. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively increase total hair density by about 8.7% after 180 days of daily administration.

10. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively improve scalp pH by about 10% after 28 days of use.

11. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively maintain scalp pH between 4.5 and 5.5 after 28 days of use.

12. The hair treatment kit of claim 1, wherein the shampoo composition and the conditioner composition collectively increase Cutibacterium genus bacteria on the scalp after 28 days of use.

13. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively increase Lawsonella genus bacteria on the scalp after 28 days of use.

14. The hair treatment kit of claim 1, wherein the shampoo composition, the conditioner composition, and the density treatment composition collectively preserve scalp microbiome diversity after 28 days of use.

15. The hair treatment kit of claim 1, wherein each of the shampoo composition, the conditioner composition, and the density treatment composition is sulfate-free, paraben-free, vegan, and gluten-free.

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