WHAT IS CLAIMED IS:

1. A cosmetic composition for lightening a skin and/or hair of a subject, the composition comprising a lignin peroxidase, an oxidizing mediator, a hydrogen peroxide-producing enzyme, and a substrate of said hydrogen peroxide-producing enzyme, wherein said oxidizing mediator is selected from the group consisting of veratryl alcohol, veratrole and 1,4-dimethoxybenzene.

2. The composition of claim 1, wherein a concentration of said lignin peroxidase is in a range of from 1.25 units/gram to 125 units/gram.

3. The composition of any one of claims 1 to 2, wherein said oxidizing mediator is veratryl alcohol.

4. The composition of claim 3, wherein a concentration of said oxidizing mediator is in a range of from 0.03 µmole/gram to 300 µmole/gram.

5. The composition of any one of claims 1 to 4, wherein said hydrogen peroxide-producing enzyme is selected from the group consisting of a glucose oxidase, a hexose oxidase, a cholesterol oxidase, an aryl alcohol oxidase, an L-gulonolactone oxidase, a galactose oxidase, a pyranose-2-oxidase, a pyridoxine-4-oxidase, an alcohol oxidase, a 2-hydroxy-acid oxidase, a choline oxidase, a long-chain-alcohol oxidase, a glycerol-3-phosphate oxidase, a D-arabinono-1,4-lactone oxidase, a vanillyl alcohol oxidase, an alditol oxidase, a prosolanapyrone II oxidase, a paromamine 6'-oxidase, a glyoxal oxidase, a veratryl alcohol oxidase, an alcohol dehydrogenase, a cellobiose dehydrogenase, an aldehyde oxidase, an oxalate oxidase, an aryl aldehyde oxidase, a dihydroorotate oxidase, a pyrroloquinoline-quinone synthase, an L-amino acid oxidase, an L-glutamate oxidase, a polyamine oxidase, an NAD(P)H oxidase, aurate oxidase, a hydroxylamine oxidase, a thiol oxidase, aglutathione oxidase, a cytochrome c oxidase, a xanthine oxidase and a superoxide dismutase.

6. A kit for lightening a skin and/or hair of a subject, the kit comprising a hydrogen peroxide-producing enzyme, a substrate of said hydrogen peroxide-producing enzyme, an oxidizing mediator and a lignin peroxidase, wherein at least one of said hydrogen peroxide-producing enzyme, said substrate of said hydrogen peroxide-producing enzyme and said lignin peroxidase forms a part of a composition which is packaged individually within the kit, and wherein said oxidizing mediator is selected from the group consisting of veratryl alcohol, veratrole and 1,4-dimethoxybenzene.

7. The kit of claim 6, wherein said hydrogen peroxide-producing enzyme forms a part of a first composition and said substrate forms a part of a second composition, said first and said second compositions being packaged individually within the kit.

8. The kit of claim 6, wherein said hydrogen peroxide-producing enzyme and said substrate of said hydrogen peroxide-producing enzyme are packaged together in an air-tight package within the kit.

9. The kit of any one of claims 6 to 8, wherein a concentration of said lignin peroxidase in a composition comprising said lignin peroxidase is in a range of from 2.5 to 250 units/gram.

10. The kit of any one of claims 6 to 9, wherein said oxidizing mediator forms a part of a composition that comprises said lignin peroxidase.

11. The kit of any one of claims 6 to 10, wherein said oxidizing mediator is veratryl alcohol.

12. The kit of any one of claims 6 to 11, wherein a concentration of said oxidizing mediator in a composition comprising said oxidizing mediator is in a range of from 0.06 µmole/gram to 600 µmole/gram.

13. The kit of any one of claims 6 to 12, wherein said hydrogen peroxide-producing enzyme is selected from the group consisting of a glucose oxidase, a hexose oxidase, a cholesterol oxidase, an aryl alcohol oxidase, an L-gulonolactone oxidase, a galactose oxidase, a pyranose-2-oxidase, a pyridoxine-4-oxidase, an alcohol oxidase, a 2-hydroxy-acid oxidase, a choline oxidase, a long-chain-alcohol oxidase, a glycerol-3-phosphate oxidase, a D-arabinono-1,4-lactone oxidase, a vanillyl alcohol oxidase, an alditol oxidase, a prosolanapyrone II oxidase, a paromamine 6'-oxidase, a glyoxal oxidase, a veratryl alcohol oxidase, an alcohol dehydrogenase, a cellobiose dehydrogenase, an aldehyde oxidase, an oxalate oxidase, an aryl aldehyde oxidase, a dihydroorotate oxidase, a pyrroloquinoline-quinone synthase, an L-amino acid oxidase, an L-glutamate oxidase, a polyamine oxidase, an NAD(P)H oxidase, aurate oxidase, a hydroxylamine oxidase, a thiol oxidase, a glutathione oxidase, a cytochrome c oxidase, a xanthine oxidase and a superoxide dismutase.

14. A cosmetic method of lightening a skin and/or hair of a subject, the method comprising contacting a skin and/or hair region of the subject with a composition comprising a lignin peroxidase, an oxidizing mediator, a hydrogen peroxide-producing enzyme and a substrate of said hydrogen peroxide-producing enzyme, thereby lightening the skin and/or hair of the subject, wherein said oxidizing mediator is selected from the group consisting of veratryl alcohol, veratrole and 1,4-dimethoxybenzene.

15. The method of claim 14, wherein said oxidizing mediator is veratryl alcohol.

16. The method of any one of claims 14 to 15, wherein said composition is formed by a lignin peroxidase, a hydrogen peroxide-producing enzyme and a substrate of said hydrogen peroxide-producing enzyme as packaged within the kit of any one of claims 6 to 13.

17. The method of claim 14, wherein said composition is the composition of any one of claims 1 to 5.