CLAIMS

1. A composition comprising a protein and water containing ultrafine bubbles having a mode particle size of no greater than 500 nm.

2. The composition according to claim 1, wherein the mode particle concentration of ultrafine bubbles is at least $1x10^6$ bubbles per milliliter.

3. The composition according to claim 1 or 2, wherein the particle concentration of bubbles having a particle diameter of no greater than 1000 nm is at least 5×10^7 bubbles per milliliter.

4. The composition according to any one of claims 1 to 3, wherein the ultrafine bubbles are filled with one or more gases selected from air, oxygen, hydrogen, nitrogen, carbon dioxide, argon, neon, xenon, fluorinated gases, and inert gases.

5. The composition according to any one of claims 1 to 4, wherein the protein is an enzyme.

6. The composition according to claim 5, wherein the enzyme is peroxidase, protease, cellulase, amylase, or lipase.

7. A method for stabilizing a protein composition which comprises mixing a protein with water containing ultrafine bubbles having a mode particle size of no greater than 500 nm.

8. A method for stabilizing a protein composition which comprises mixing a protein with water containing ultrafine bubbles having a mode particle size of no greater than 500 nm and wherein the mode particle concentration is at least $1x10^6$ bubbles per milliliter..

9. The method according to claim 7 or 8, wherein the water containing ultrafine bubbles is such that the particle concentration of bubbles having a particle diameter of no greater than 1000 nm is at least 5×10^7 bubbles per milliliter.

10. The method according to any one of claims 7 to 9, wherein the ultrafine bubbles include one or more gases selected from air, oxygen, hydrogen, nitrogen, carbon dioxide, argon, neon, xenon, fluorinated gases, and inert gases.

11. The method according to any one of claims 7 to 10, wherein the protein is an enzyme.

12. The method according to claim 11, wherein the enzyme is peroxidase, protease, cellulase, amylase, or lipase.

CLAIMS

1. A composition comprising an enzyme and water containing ultrafine bubbles having a mode particle size of no greater than 500 nm, wherein the mode particle concentration of ultrafine pebbles is at least $1x10^6$ bubbles per milliliter.

2. The composition according to claim 1, wherein the particle concentration of bubbles having a particle diameter of no greater than 1000 nm is at least 5×10^7 bubbles per milliliter.

3. The composition according to any one of claims 1 or 2, wherein the ultrafine bubbles are filled with one or more gases selected from air, oxygen, hydrogen, nitrogen, carbon dioxide, argon, neon, xenon, fluorinated gases, and inert gases.

4. The composition according to claim 1 or 2, wherein the enzyme is peroxidase, protease, cellulase, amylase, or lipase.

5. A method for stabilizing an enzyme composition which comprises mixing an enzyme with water containing ultrafine bubbles having a mode particle size of no greater than 500 nm and wherein the mode particle concentration is at least $1x10^6$ bubbles per milliliter.

6. The method according to claim 5, wherein the water containing ultrafine bubbles is such that the particle concentration of bubbles having a particle diameter of no greater than 1000 nm is at least 5×10^7 bubbles per milliliter.

7. The method according to claim 5 or 6, wherein the ultrafine bubbles include one or more gases selected from air, oxygen, hydrogen, nitrogen, carbon dioxide, argon, neon, xenon, fluorinated gases, and inert gases.

8. The method according to claim 5 or 7, wherein the enzyme is peroxidase, protease, cellulase, amylase, or lipase.