CLAIMS

1. A delayed disintegration-type seamless capsule, comprising:

a core;

one or more intermediate layers formed on the core; and

an outermost layer formed on the intermediate layers,

wherein the core comprises an active substance, an amphoteric surfactant, and a fat having a melting point of 40°C or more,

at least one layer of the intermediate layers comprises a fat having a melting point of 45°C or more, ~~and~~

the outermost layer comprises a water-soluble natural polymer, and

wherein the amphoteric surfactant is a phospholipid.

2. The seamless capsule according to claim 1, wherein the amphoteric surfactant is present in an amount of 3 to 50% by weight based on a total weight of the core.

~~3. The seamless capsule according to claim 1 or 2, wherein the amphoteric surfactant is a phospholipid.~~

43. The seamless capsule according to claim ~~3~~1 or 2, wherein the phospholipid is lecithin.

54. The seamless capsule according to any one of claims 1 to 43, wherein the active substance is selected from the group consisting of a Chinese herbal medicine extract, a tincture, a plant extract, an animal extract, a microbial extract, a microbially produced extract, a fruit juice, a functional polysaccharide, a polyphenol, vitamin C, vitamin B, an amino acid, a microorganism, a bacterium, an essential oil, an anti-inflammatory drug, a steroid drug, an omega-3-fatty acid, an omega-6-fatty acid, an omega-9-fatty acid, and combinations thereof.

~~6~~5. The seamless capsule according to any one of claims 1 to ~~5~~4, wherein the water-soluble natural polymer is selected from among gelatin, agar, gellan gum, carrageenan, furcellaran, pectin, chitosan, alginic acid, curdlan, starch, modified starch, pullulan, mannan, and mixtures thereof.

~~7~~6. A method for producing a delayed disintegration-type seamless capsule, the method comprising:

discharging a core liquid from an innermost nozzle of a concentric triple nozzle into a cooling liquid composed of a cooled liquid oil; and

simultaneously dropping an intermediate layer liquid from an intermediate nozzle disposed outside the innermost nozzle and an outermost layer liquid from an outermost nozzle to form a seamless capsule,

wherein the core liquid comprises an active substance, an amphoteric surfactant, and a fat having a melting point of 40°C or more,

the intermediate layer liquid comprises a fat having a melting point of 45°C or more, ~~and~~

the outermost layer liquid comprises a water-soluble natural polymer, and wherein the amphoteric surfactant is a phospholipid.

~~8~~7. The method for producing a seamless capsule according to claim ~~7~~6, wherein the amphoteric surfactant is present in an amount of 3 to 50% by weight based on a total weight of the core.

~~9. The method for producing a seamless capsule according to claim 7 or 8, wherein the amphoteric surfactant is a phospholipid.~~

~~10~~8. The method for producing a seamless capsule according to claim ~~6~~9 or 7, wherein the phospholipid is lecithin.

~~11~~9. The method for producing a seamless capsule according to any one of claims ~~7–~~6 to ~~10~~8, wherein the active substance is selected from the group consisting of a Chinese herbal medicine extract, a tincture, a therapeutic agent, a plant extract, an animal extract, a microbial extract, a microbially produced extract, a fruit juice, a functional polysaccharide, a polyphenol, vitamin C, vitamin B, an amino acid, a microorganism, a bacterium, an essential oil, an anti-inflammatory drug, a steroid drug, an omega-3-fatty acid, an omega-6-fatty acid, an omega-9-fatty acid, and combinations thereof.

~~12~~10. The method for producing a seamless capsule according to any one of claims ~~7–~~6 to ~~11~~9, wherein the water-soluble natural polymer is selected from among gelatin, agar, gellan gum, carrageenan, furcellaran, pectin, chitosan, alginic acid, curdlan, starch, modified starch, pullulan, mannan, and mixtures thereof.