and good adhesiveness is exhibited is obtained without requiring any carrageenan. It has been further found that if the composition is used, excellent film performance such as blocking resistance, elasticity, transparency and rapid disintegration properties is obtained after encapsulation. The present invention has been completed based on these findings.

[0014]

That is, the present invention relates to the followings.

(1) A soft capsule film composition, comprising: (A) native gellan gum; (B) one or more hydrophilic polysaccharides; (C) starch or modified starch; (D) a plasticizer; and (E) water, wherein a gelling agent other than (A) the native gellan gum and (B) the one or more hydrophilic polysaccharides is not an essential component.

In one aspect, there is provided a soft capsule film composition comprising a soft capsule film composition, comprising: (A) a native gellan gum; (B) one or more hydrophilic polysaccharides excluding deacylated gellan gum; (C) a starch or modified starch; (D) a plasticizer; and (E) water, wherein a gelling agent other than (A) the native gellan gum and (B) the one or more hydrophilic polysaccharides is not an essential component, and (C) the starch or the modified starch is waxy potato starch, a starch dispersion formed by subjecting a starch glue solution to ultrasonic treatment, or a starch subjected to moist heat treatment in the presence of a salt.

(2) The soft capsule film composition of (1), wherein (C) the starch or the modified starch is one or more starches

selected from a natural starch, an oxidized starch, a hydroxypropylated starch, an acetylated starch, starches subjected to acetylation, hydroxypropylation, octenylsuccination, phosphorylation, crosslinking, acid treatment, and moist heat treatment in the presence of a salt, and a starch dispersion obtained by ultrasonically treating a starch paste solution.

(3) The soft capsule film composition of (1) or (2), wherein (C) the starch or the modified starch is one or more starches selected from sago starch, sweet potato starch, mung bean starch, wheat starch, corn starch, rice starch, waxy corn

CLAIMS

1. A soft capsule film composition, comprising: (A) a native gellan gum; (B) one or more hydrophilic polysaccharides excluding deacylated gellan gum; (C) a starch or modified starch; (D) a plasticizer; and (E) water, wherein a gelling agent other than (A) the native gellan gum and (B) the one or more hydrophilic polysaccharides is not an essential component, and (C) the starch or the modified starch is waxy potato starch, a starch dispersion formed by subjecting a starch glue solution to ultrasonic treatment, or a starch subjected to moist heat treatment in the presence of a salt.

2. The soft capsule film composition according to claim 1, further comprising as (C) the starch or the modified starch, one or more starches selected from a natural starch, an oxidized starch, a hydroxypropylated starch, an acetylated starch and a starch subjected to acetylation, hydroxypropylation, octenylsuccination, phosphorylation, crosslinking or acid treatment.

3. The soft capsule film composition according to claim 1, further comprising as (C) the starch or the modified starch, one or more starches selected from sago starch, sweet potato starch, mung bean starch, wheat starch, corn starch, rice starch, waxy corn starch, waxy wheat starch, waxy rice starch, and modified starches obtained therefrom.

4. The soft capsule film composition according to any one of claims 1 to 3, further comprising an oxidized starch as (C) the starch or the modified starch.

5. The soft capsule film composition according to any one of claims 1 to 4, wherein a content mass ratio of (A) the native gellan gum to (B) the one or more hydrophilic polysaccharides excluding deacylated gellan gum [(A):(B)] is 1:1 to 1:0.01.

6. The soft capsule film composition according to claim 1, wherein (C) the starch dispersion formed by subjecting the starch glue solution to ultrasonic treatment is a starch dispersion derived from waxy corn starch.

7. The soft capsule film composition according to claim 6, wherein the waxy corn starch used for the starch dispersion formed by subjecting a starch glue solution to ultrasonic treatment is an unmodified natural starch.

8. The soft capsule film composition according to claim 1, wherein (C) the starch or the modified starch subjected to moist heat treatment in the presence of a salt is waxy corn starch subjected to moist heat treatment in the presence of a salt.

9. A soft capsule film, wherein the soft capsule film is obtained using the soft capsule film composition according to any one of claims 1 to 8.

10. A soft capsule, wherein the soft capsule is obtained using the soft capsule film composition according to any one of claims 1 to 8.