CLAIMS

[Claim 1]

A medical device containing a separately prepared freeze-dried cake composition comprising aripiprazole as an active ingredient in a storage container whose inner wall is treated with silicone, wherein there is a space between the inner wall of the storage container and the cake composition.

[Claim 2]

The medical device containing the cake composition according to claim 1, wherein the cake composition is a cake composition that was freeze-dried in a container separate from the storage container.

[Claim 3]

The medical device containing the cake composition according to claim 1 or 2, wherein the apparent volume of the cake composition accounts for 30 to 99% of the volume of the storage container.

[Claim 4]

The medical device containing the cake composition according to any one of claims 1 to 3, wherein the cake composition has a cylindrical shape.

[Claim 5]

The medical device containing the cake composition according to claim 4, wherein a top surface of the cylindrical cake composition is raised.

[Claim 6]

The medical device containing the cake composition according to claim 4 or 5, wherein a side surface of the cylindrical cake composition is sloped.

[Claim 7]

The medical device containing the cake composition according to any one of claims 1 to 6, wherein the storage container treated with silicone is a vial or syringe.

[Claim 8]

The medical device containing the cake composition according to claim 7, wherein the syringe has multiple chambers and the cake composition is contained in at least one chamber.

[Claim 9]

The medical device containing the cake composition according to claim 7, wherein the syringe has a chamber (A) for containing the cake composition, and a chamber (B) for containing an injection liquid;
the chamber (A) is arranged on the side where a needle is placed, and the chamber (B) is arranged on the side where a plunger is placed; and
the cake composition is contained in the chamber (A) and the injection liquid is contained in the chamber (B).

[Claim 10]

The medical device containing the cake composition according to any one of claims 1 to 9, wherein the cake composition has a strength of 5 to 100 N.

[Claim 11]

A cake composition comprising aripiprazole as an active ingredient and having a strength of 5 to 100 N.

[Claim 12]

The cake composition according to claim 11, wherein the percentage of aripiprazole in the cake composition is 60 to 95% by mass.

[Claim 13]

The cake composition according to claim 11 or 12, wherein the amount of aripiprazole in the cake composition is 0.1 to 0.6 g.

[Claim 14]

The cake composition according to any one of claims 11 to 13, obtained by freeze-drying 0.25 to 12 g of a suspension having an aripiprazole solids content of 5 to 45% by mass.

[Claim 15]

The cake composition according to any one of claims 11 to 14, wherein the cake composition has a cylindrical shape.

[Claim 16]

The cake composition according to claim 15, wherein a top surface of the cylindrical cake composition is raised.

[Claim 17]

The cake composition according to claim 15 or 16, wherein a side surface of the cylindrical cake composition is sloped.

[Claim 18]

The cake composition according to any one of claims 11 to 17, wherein the cake composition is used for being placed in a medical device.

[Claim 19]

The cake composition according to claim 18, wherein the cake composition is a mass that was freeze-dried in a container separate from a storage container in the medical device.

[Claim 20]

A method for producing a medical device containing a cake composition comprising aripiprazole as an active ingredient, the method comprising
a step of enclosing a separately prepared freeze-dried cake composition comprising aripiprazole as an active ingredient in a storage container whose inner wall is treated with silicone.

[Claim 21]
The method for producing the medical device according to claim 20, wherein the storage container treated with silicone is a vial or syringe.

[Claim 22]
The method for producing the medical device according to claim 21, wherein the syringe has multiple chambers and the cake composition is contained in at least one chamber.

[Claim 23]
The method for producing the medical device according to claim 22, wherein the syringe has a chamber (A) for containing the cake composition, and a chamber (B) for containing an injection liquid;
the chamber (A) is arranged on the side where a needle is placed, and the chamber (B) is arranged on the side where a plunger is placed; and
the cake composition is contained in the chamber (A) and
the injection liquid is contained in the chamber (B).

[Claim 24]
A method for producing a cake composition comprising aripiprazole as an active ingredient and having a strength of 5 to 100 N, the method comprising
a step of freeze-drying a suspension comprising aripiprazole as an active ingredient.

CLAIMS

[Claim 1]

A medical device containing a separately prepared freeze-dried cake composition comprising aripiprazole as an active ingredient in a storage container whose inner wall is treated with silicone, wherein there is a space between the inner wall of the storage container and the cake composition.

[Claim 2]

The medical device containing the cake composition according to claim 1, wherein the cake composition is a cake composition that was freeze-dried in a container separate from the storage container.

[Claim 3]

The medical device containing the cake composition according to claim 1 or 2, wherein the apparent volume of the cake composition accounts for 30 to 99% of the volume of the storage container.

[Claim 4]

The medical device containing the cake composition according to any one of claims 1 to 3, wherein the cake composition has a cylindrical shape.

[Claim 5]

The medical device containing the cake composition according to claim 4, wherein a top surface of the cylindrical cake composition is raised.

[Claim 6]

The medical device containing the cake composition according to claim 4 or 5, wherein a side surface of the cylindrical cake composition is sloped.

[Claim 7]

The medical device containing the cake composition according to any one of claims 1 to 6, wherein the storage container treated with silicone is a vial or syringe.

[Claim 8]

The medical device containing the cake composition according to claim 7, wherein the syringe has multiple chambers and the cake composition is contained in at least one chamber.

[Claim 9]

The medical device containing the cake composition according to claim 7, wherein the syringe has a chamber (A) for containing the cake composition, and a chamber (B) for containing an injection liquid;

the chamber (A) is arranged on the side where a needle is placed, and the chamber (B) is arranged on the side where a plunger is placed; and

the cake composition is contained in the chamber (A) and the injection liquid is contained in the chamber (B) .

[Claim 10]

The medical device containing the cake composition according to any one of claims 1 to 9, wherein the cake composition has a strength of 5 to 100 N.

[Claim 11]

A cake composition comprising aripiprazole as an active ingredient and having a strength of 5 to 100 N;

wherein the cake composition has a cylindrical shape; and

a side surface of the cylindrical cake composition is sloped.

[Claim 12]

The cake composition according to claim 11, wherein the percentage of aripiprazole in the cake composition is 60 to 95% by mass.

[Claim 13]

The cake composition according to claim 11 or 12, wherein the amount of aripiprazole in the cake composition is 0.1 to 0.6 g.

[Claim 14]

The cake composition according to any one of claims 11 to 13, obtained by freeze-drying 0.25 to 12 g of a suspension having an aripiprazole solids content of 5 to 45% by mass.

[Claim 15]

The cake composition according to any one of claims 11 to 14, wherein a top surface of the cylindrical cake composition is raised.

[Claim 16]

The cake composition according to any one of claims 11 to 15, wherein the cake composition is used for being placed in a medical device.

[Claim 17]

The cake composition according to claim 16, wherein the cake composition is a mass that was freeze-dried in a container separate from a storage container in the medical device.

[Claim 18]

A method for producing a medical device containing a cake composition comprising aripiprazole as an active ingredient, the method comprising

a step of enclosing a separately prepared freeze-dried cake composition comprising aripiprazole as an active ingredient in a storage container whose inner wall is treated with silicone;

wherein there is a space between the inner wall of the storage container and the cake composition.

[Claim 19]

The method for producing the medical device according to claim 18, wherein the storage container treated with silicone is a vial or syringe.

[Claim 20]

The method for producing the medical device according to claim 19, wherein the syringe has multiple chambers and the cake composition is contained in at least one chamber.

[Claim 21]

The method for producing the medical device according to claim 20, wherein the syringe has a chamber (A) for containing the cake composition, and a chamber (B) for containing an injection liquid;

the chamber (A) is arranged on the side where a needle is placed, and the chamber (B) is arranged on the side where a plunger is placed; and

the cake composition is contained in the chamber (A) and the injection liquid is contained in the chamber (B).

[Claim 22]

A method for producing a cake composition comprising aripiprazole as an active ingredient and having a strength of 5 to 100 N, the method comprising

a step of freeze-drying a suspension comprising aripiprazole as an active ingredient;

wherein the cake composition has a cylindrical shape; and

a side surface of the cylindrical cake composition is sloped.