Claims

1. A method of producing a composition containing a starch sugar and an amino acid derived from rice wherein it comprises:

a step of compressing and kneading rice powder or rice grains within a cylinder by using an extruder to break an α - 1,4 bond in starch mechanically, and,

a step of breaking the α - 1,4 bond in starch and/or an α-1,6 bond in starch by adding an enzyme into the cylinder, and wherein the extruder is a tandem type of extruder with a three-stage comprising an upper cylinder, a middle cylinder and a lower cylinder, and a temperature of the upper cylinder is from 100 to 150 ^{o}C, and a temperature of the middle cylinder is from 80 to 100 ^{o}C, a temperature of the lower cylinder is from 40 to 60 ^{o}C .

2. A method of producing a composition containing a starch sugar and an amino acid derived from rice according to claim 1, wherein it further comprises:

a step of adding water to the rice powder or rice grains as preparation.

3. A method of producing a composition containing a starch sugar and an amino acid derived from rice according to claims 1 or 2, wherein the enzyme is a diastatic enzyme or a proteolytic enzyme.

4. A method of producing a composition containing a starch sugar and an amino acid derived from rice according to claim 3, wherein the diastatic enzyme is at least one selected from β – amylase, glucoamylase, or a transglucosidase.

5. A method of producing a composition containing a starch sugar and an amino acid derived from rice according to claim 3, wherein the proteolytic enzyme is a protease.

6. A method of producing a composition containing a starch sugar and an amino acid derived from rice wherein it comprises:

a step of compressing and kneading rice powder or rice grains within a cylinder by using an extruder to break an α - 1,4 bond in starch mechanically, and,

a step of breaking the α - 1,4 bond in starch and/or an α-1,6 bond in starch by adding an enzyme into the cylinder, and wherein the tandem type of extruder is a three-stage comprising an upper cylinder, a middle cylinder and a lower cylinder.