STARCH-CONTAINING SOLID COMPOSITION AND METHOD FOR PRODUCING SAME

ABSTRACT

Provided is a starch-containing solid composition having both preferable elasticity during water retention and low viscosity during water retention when heated under water-containing conditions. The composition satisfies all of (1) to (4) below. (1) The starch content in the composition is 20 mass% or more in terms of dry mass. (2) (a) and/or (b) below are satisfied. (a) 300 pieces/mm2 or less of starch grain structures are observed in a 6% suspension of a pulverized product of the composition. (b) The gelatinization peak temperature is below 120°C as measured using a rapid viscoanalyzer when a 14 mass% water slurry of the pulverized composition is heated from 50°C to 140°C at a heating rate of 12.5°C/min. (3) The degree of gelatinization of starch in the composition is 50 mass% or more. (4) For the composition, the following [value α] is 60% or less, and the following [value β] is 35% or more. [Value α] In a molecular weight distribution curve obtained by analyzing purified starch under [condition A], the purified starch being obtained by treating the composition in a 40-fold amount of water at a constant temperature of 90°C for 15 minutes and then using [procedure a], the ratio of the area under the curve in a section in which the molecular weight logarithm is at least 5.0 and less than 6.5 to the area under the entire curve. [Value β] In the molecular weight distribution curve, the ratio of the area under the curve in a section in which the molecular weight logarithm is at least 6.5 and less than 8.0 to the area under the entire curve. ([procedure a] and [condition A] are as described in the specification.)

[No Suitable Figure]