

ABSTRACT

SOLID FOOD AND SOLID MILK

Provided are a solid food and a solid milk which have suitable solubility and easily handled strength. A solid food is a solid food having a solid form obtained by compression molding a powder, in which a case where the solid food is submerged in 200 ml of warm water at $50 \pm 1^\circ\text{C}$ with respect to one solid food and stirred at a rotation speed of 0.5 m/s (peripheral speed), a dissolution process from the solid food starting to dissolve until the solid food completely dissolving is measured over time on the basis of electric conductivity, times (sec) at which a dissolution ratio, which is a ratio of electric conductivity when electric conductivity at the time of finish of dissolution is regarded as 100%, reaches 20%, 63%, and 95% are respectively designated as t_{20} , t_{63} , and t_{95} , and times (sec) at which the dissolution ratio of a reference solid food, which is formed under conditions in which a difference in weight with the solid food is within $\pm 0.3\%$, a difference in surface area with the solid food is within $\pm 2\%$, a difference in hardness with the solid food is within $\pm 4\%$, and a humidification treatment

temperature is 100°C or lower, reaches 20%, 63%, and 95% are respectively designated as $t_{20\text{ref}}$, $t_{63\text{ref}}$, and $t_{95\text{ref}}$, a solubility index (I_d) represented by the following Formula (1) is less than 1.

$$I_d = (t_{20}/t_{20\text{ref}} + t_{63}/t_{63\text{ref}} + t_{95}/t_{95\text{ref}})/3 \dots (1)$$

[NO Suitable Figure]