ABSTRACT

The present invention relates to the technical field of yogurt, and provides a use of a volume-weighted average diameter in the evaluation of the graininess of post-heat-treated yogurt. The use comprises: using a volume-weighted average diameter D[4,3] to evaluate a microgel structure of post-heat-treated yogurt, which can achieve a technical effect equivalent to the evaluation result of an existing microscopic image analysis method. The present invention also provides a method for evaluating post-heat-treated yogurt, the method comprising a step of obtaining the volume-weighted average diameter D[4,3] of the post-heat-treated yogurt. It is further found that there is a significant power law fitting correlation between the volume-weighted average diameters D[4,3] of different post-heat-treated yogurts and the graininess scores of sensory panelists, which can identify a high-sensitivity group among the sensory panelists by means of said correlation, and improve the accuracy of oral graininess sensitivity tests. In addition, in order to reduce the graininess of post-heat-treated yogurt, the present invention proposes a technical solution of mixing yogurt having a specific volume-weighted average diameter D[4,3] with yogurt having a relatively high graininess score after post-heat treatment.

Fig. 1