

Abstract

Transport method and transport apparatus for high-quality fresh milk in transport- and environment-critical conditions

- The invention relates to a transport method and a transport apparatus (1) for high-quality fresh milk P in transport- and environment-critical transport conditions, in each case of the generic type, that ensure minimization of the creaming in conjunction with a reduction in the adherence of the cream to the inner walls of the container
- 5 in question and that prevent, as far as possible, separation of the high-quality fresh milk while also stabilizing the microbiology during transportation. In terms of the method, this object is achieved, inter alia, by the following steps:
- (A) filling the container (10) with the high-quality fresh milk (P) under sterile conditions and,
- 10 within a storage time (Δt) that comprises a period of time from after filling to emptying of the container (10),
- (B) detecting an angle of inclination (+/-a) that is formed between a free surface (N) of the high-quality fresh milk (P) formed toward the headspace (10.1) and a reference system (BS) based on the container (10);
- 15 (C) detecting a pressure (p) in the headspace (10.1);
- (D) increasing the pressure (p) depending on and in proportion to the magnitude of the angle of inclination (+/-a) by feeding a gaseous, sterile fluid (F) into the headspace (10.1) under sterile conditions and
- emptying the high-quality fresh milk (P) from the container (10) under sterile conditions
- 20 (Fig. 7).