



Reference : 06-019

Scharlau Microbiology - Technical data sheet

Product :
SKIMMED MILK POWDER

Specification

Culture Media Additive.

Formula * in g/L

Appearance :..... white powder
Odor and flavor: dairy
Solubility:..... ≤1.00ml
Fat :..... ≤ 1.50%
Proteins (TNx6.38) g/100g:..... ≥ 33.00%
Humidity :..... ≤ 4.50%
Acidity :..... ≤ 0.16%
Lactose:..... ≥ 50.00%
Residue on ignition:..... ≤ 8.50%
Inhibitors of microbiological growth (Antibiotics):negative
* Adjusted and /or supplemented as required to meet performance criteria

Directions

100 g of powder produces 1 L of skimmed milk. Addition of water must be gradual, until the mixture is a homogeneous paste. Then, complete the process by adding more water until the desired volume is obtained. Sterilization may be under fluent steam for 30 minutes and three consecutive days or in the autoclave at 121°C for 5 minutes or at 115°C for 15-20 minutes (this last way is the best). Care should be taken not to overheat the prepared milk since natural sugars may become burnt and produce toxic compounds.

Description

Skimmed milk powder for bacteriology is obtained after a careful spray drying process that keeps it free from thermophilic organisms that would otherwise interfere with its use.

Skimmed milk may be used alone or as an additive to other culture media. It is a suitable medium for the culture of lactic acid bacteria and for identification in general, where an organism's capacity to coagulate or peptonize milk results in visible changes to the medium. With the addition of suitable indicators such as bromocresol purple at 0,004% pH changes due to bacterial activity may be detected. It also accepts redox indicators like methylene blue, resazurin or TTC to verify microbial development.

Skimmed milk may be added to media such as Tryptone Soy Agar or Nutrient Agar to detect caseolytic activity.

Raw material for laboratory use only. Ingredient of culture media.

Milk and its derivatives, belongs to tissues without detectable infectivity (IC) of BSE / TSE, according to "The Note for Guidance EMEA/410/01 rev. 3".

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4°C to 30°C and <60% RH).

Packaging