



Product Data Sheet

LACTIC PHAGE BROTH

Product No. GB-DCM-00298-1A

INTENDED USE

For enumeration of bacteriophages active against starter cultures employed in cheese production.

PRODUCT SUMMARY

Lactic streptococci are of critical importance to the dairy fermentation industry because these bacteria supply the lactic acid for the curd production and their metabolic products impart characteristic and desirable flavors. Bacteriophages play a vital role as they infect the starter cultures resulting in insufficient acid production. This medium is recommended for the bacteriophage detection.

Product Specifications

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	10.000
Yeast extract	5.000
Beef extract	5.000
Lactose	10.000
Dipotassium phosphate	5.000

PRINCIPLE

This medium consists of Casein enzymic hydrolysate, Yeast extract and beef extract which provides all the essential nutrients especially nitrogenous sources for the organisms. Dipotassium phosphate is the buffering agent and lactose is the carbon source in the medium.

INSTRUCTION FOR USE

- Dissolve 35.0 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Mix well and dispense in tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium: Light amber coloured clear to slightly opalescent.

pH (at 25°C) : 6.8± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Streptococcus cremoris	19257	50-100	Good-Luxuriant	30°C	18-24 Hours
Lactobacillus lactis	8000	50-100	Luxuriant	30°C	18-24 Hours
Streptococcus thermophilus	14485	50-100	Good-Luxuriant	30°C	18-24 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.