

Product Data Sheet

MRS BROTH (LACTOBACILLUS MRS BROTH)

Product No. GB-DCM-00367-1A

INTENDED USE

For isolation and cultivation of Lactobacillus species.

PRODUCT SUMMARY

Lactobacilli MRS media are based on the formulation of deMan, Rogosa and Sharpe with slight modification. It supports luxuriant growth of all Lactobacilli from oral cavity, dairy products, foods, faeces and other sources.

Product Specifications

Ingredients	Gms / Ltr
Proteose peptone	10.000
Beef extract	10.000
Yeast extract	5.000
Dextrose(Glucose)	20.000
Polysorbate 80 (Tween 80)	1.000
Ammonium citrate	2.000
Sodium acetate	5.000
Magnesium sulphate	0.100
Manganese sulphate	0.050
Dipotassium phosphate	2.000

PRINCIPLE

Proteose peptone and Beef extract supply nitrogenous and carbonaceous compounds. Yeast extract provides vitamin B complex and dextrose is the fermentable carbohydrate and energy source. Polysorbate 80 supplies fatty acids required for the metabolism of Lactobacilli. Sodium acetate and ammonium citrate inhibit Streptococci, moulds and many other microorganisms.

INSTRUCTION FOR USE

- Dissolve 55.15 grams in 1000 ml purified / distilled water.
- Heat if necessary to dissolve the medium completely.
- Distribute in tubes, bottles or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Lactobacillus fermentum	9338	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Lactobacillus leichmannii	7830	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Lactobacillus plantarum	8014	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Lactobacillus casei	9595	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Lactobacillus saki	15521	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Lactobacillus lactis	19435	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Pediococcus pentosaceus	33316	50-100	luxuriant	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Escherichia coli	25922	$\geq 10^4$	Inhibition	35-37°C	18-24 Hours or longer (with 5% CO ₂)
Bacillus cereus	11778	$\geq 10^4$	Inhibition	35-37°C	18-24 Hours or longer (with 5% CO ₂)



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QUALITY CONTROL SPECIFICATIONS

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

Appearance of prepared medium Medium amber coloured, clear solution in tubes.

pH (at 25°C) : 6.5 ± 0.2

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.