

Lactobacillus MRS Broth w/o Dextrose

Cat. No. 66416-0, 66416-1, 66416-2

DESCRIPTION

Lactobacillus MRS Broth w/o Dextrose, also referred to LMRS Broth w/o Dextrose, is used for the selective isolation and enumeration of lactobacilli from various sources including feces and dairy. Dextrose is not included in this version of the formulation to provide the user with the ability to incorporate a desired carbohydrate for additional selectivity.

PREPARATION

Mix 35.2 grams of the medium and 20 grams (recommended) of a desired carbohydrate in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing with soft lumps and yellow beige to tan.
2. Visually the prepared medium is clear and medium to dark amber.
3. Expected cultural response after 1-4 days at 35°C.
4. Growth results below prepared with the additional of 2% Dextrose.

Organism:

Lactobacillus casei ATCC® 393
Lactobacillus fermentum ATCC® 9338
Lactobacillus plantarum ATCC® 8014
Lactobacillus rhamnosus ATCC® 9595

Result:

Growth
 Growth
 Growth
 Growth

Formula* per Liter:

Beef Extract	10.0g
Meat Peptone	10.0g
Sodium Acetate	5.0g
Yeast Extract	5.0g
Ammonium Citrate	2.0g
Sodium Phosphate, Dibasic.....	2.0g
Polysorbate 80 (Tween 80).....	1.0g
Magnesium Sulfate	0.1g
Manganese Sulfate.....	0.05g
Sodium Carbonate.....	0.05g

Final pH: 6.5 ± 0.2 at 25°C

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

Item(s) Supplied:

Catalog No.	Product Name	Size	Storage Condition*
66416-0	Lactobacillus MRS Broth w/o Dextrose	500 g	2 to 30°C
66416-1	Lactobacillus MRS Broth w/o Dextrose	1 kg	2 to 30°C
66416-2	Lactobacillus MRS Broth w/o Dextrose	2 kg	2 to 30°C

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.