

## M17 AGAR

Medium for the cultivation and enumeration of lactic streptococci in milk and dairy products.

TYPICAL FORMULA	(g/l)
Tryptone	2.5
Peptone	2.5
Soy Peptone	5.0
Meat Extract	5.0
Yeast Extract	2.5
Sodium Glycerophosphate	19.0
Magnesium Sulfate	0.25
Ascorbic Acid	0.5
Lactose	5.0
Agar	15.0
Final pH 7.2 ± 0.2	

### DESCRIPTION

M17 AGAR is a medium used for the cultivation and enumeration of lactic streptococci in milk and dairy products.

### PRINCIPLE

Tryptone, peptones, and meat extract provide nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is a source of group B vitamins. Sodium glycerophosphate increases the buffering capacity of the medium and maintains the pH above 5.7 guaranteeing the growth conditions of the lactic streptococci. Ascorbic acid stimulates the growth of lactic streptococci. Magnesium sulfate provides essential ions for growth. Lactose is the fermentable carbohydrate as energy source. Agar is the solidifying agent.

### PREPARATION

Dissolve the contents of the bottle in a boiling water bath to 100°C (with the caps slightly unscrewed) until complete dissolution of the medium. Verify, once melted, the good homogeneity of the medium by inverting the bottle after having screwed the cap. If necessary, put the bottle in a water bath to obtain the complete melting. Cool to 45-50°C, mix well without forming bubbles. Pour into sterile Petri dishes under aseptic conditions. Allow to dry thoroughly the plates to avoid the formation of condensation which can promote medium contamination. Store plates upside down in airtight boxes or polythene bags tightly sealed.

### TECHNIQUE

Inoculate streaking the sample onto the surface of the medium. Incubate at 30+/-2°C for 48 hours, or up to weeks if required.

### INTERPRETATION OF RESULTS

Examine incubated plates for typical colonies and carry on with identification tests by means of standard biochemical method.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

- American Public Health Association, Standard Methods for the examination and wastewater. Terzaghi, B.E and Sandine, WE. Improved medium for lactic streptococci and their bacteriophages.



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## PRODUCT SPECIFICATIONS

### NAME

M17 AGAR

### PRESENTATION

Glass bottles containing 100 ml of medium

### STORAGE

10-25°C

### PACKAGING

Ref.	Content	Packaging
402110	6 bottles x 100 ml	6 bottles in cardboard box

### pH OF THE MEDIUM

7.2 ± 0.2

### USE

M17 AGAR is a medium used for the cultivation and enumeration of lactic streptococci in milk and dairy products

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

Light to medium amber, very slightly to slightly opalescent, no significant precipitate

### SHELF LIFE

730 days

### QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control  
7 days at 22 ± 1°C, in aerobiosis  
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control  
Inoculum for productivity: 10-100 CFU/ml  
Inoculum for selectivity: 10<sup>4</sup>-10<sup>5</sup> CFU/ml  
Inoculum for specificity: ≤10<sup>4</sup> CFU/ml  
Incubation Conditions: 18-24 h at 36 ± 1°C

### Microorganism










*Streptococcus lactis*  
*Lactibacillus casei*

ATCC 19435  
ATCC 393

### Growth

Good  
Moderate

### TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains Sufficient for <n> tests	 Caution, consult instructions for use	



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