

Technical Data Sheet

Lactose Broth

Ordering number: 1.46401.0010

Lactose Broth is a fluid medium for selective pre-enrichment of Enterobacteriaceae as well as for *E. coli* and *Salmonella* in water, food and pharmaceutical products.

The medium is used for detection of specified microorganisms of non-sterile products.

Lactose Broth is available in different filling volumes and with various locking mechanisms:

- Lactose Broth (article number 146401): 125 ml-bottle with **screw cap**, filling volume 100 ml
- Lactose Broth (article number 146400): 275 ml-bottle with **wide mouth**, filling volume 90 ml

Mode of Action

Peptone from Gelatin in combination with Meat Extract allows good growth of all Enterobacteriaceae. Lactose in addition is a further source of carbon and energy. This enhances the growth of bacteria which are able to ferment lactose.

Typical Composition

Gelatin Peptone	5 g/l
Meat Peptone	3 g/l
Lactose	5 g/l

The appearance of the medium is clear and yellowish. The pH value is in the range of 6.7-7.1. The medium can be adjusted and/or supplemented according to the performance criteria required.

Storage and Shelf Life

The product can be used for sampling until the expiry date if stored upright, protected from light and properly sealed at +2 °C to +25 °C.

The testing procedures as described on the CoA can be started up to the expiry date printed on the label.

Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

Quality Control

Control Strains	ATCC #	Inoculum CFU	Incubation	Expected Results
<i>Escherichia coli</i>	8739	10-100	20-24 h at 33-35 °C	good growth; pronounced turbidity
<i>Salmonella</i> Typhimurium	13311	10-100	20-24 h at 33-35 °C	good growth; pronounced turbidity
<i>Proteus mirabilis</i>	9240	10-100	20-24 h at 33-35 °C	good growth; pronounced turbidity
<i>Staphylococcus aureus</i> *	6538	10-100	20-24 h at 33-35 °C	good growth; pronounced turbidity
<i>Pseudomonas aeruginosa</i> *	9027	10-100	20-24 h at 33-35 °C	good growth; pronounced turbidity

* only tested for 146401

Please refer to the actual batch related Certificate of Analysis.

Ordering Information

Product	Cat. No.	Pack size
Lactose Broth	1.46401.0010	10 x 100 ml bottle
Lactose Broth	1.46400.0006	6 x 90 ml bottle

EMD Millipore Corporation
290 Concord Road
Billerica, MA 01821, U.S.A.
mibio@emdmillipore.com
www.emdmillipore.com/biomonitoring

Find contact information for your country at:
www.emdmillipore.com/offices
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