

## Phenol Red Lactose Agar

### Intended Use

Phenol Red Lactose Agar is used for studying lactose fermentation by the pure cultures of microorganisms.

### Summary

Phenol Red Agar media are recommended for studying the fermentation of various carbohydrates individually by the pure cultures of microorganisms.

### Principle

Proteose peptone which is free from fermentable carbohydrates is added in the medium thereby preventing the production of false positive reactions. When Phenol Red Agar with lactose is used, a positive carbohydrate fermentation reaction is indicated by the production of a yellow colour in agar due to the effect of acid production. Gas production is indicated by the splitting of agar or by the bubble's formation. Plates or tubes may be incubated aerobically or anaerobically depending on the type of the test organism.

### Formula\*

Ingredients	g/L
Proteose peptone	10.0
Cara Beef extract#	1.0
Sodium chloride	5.0
Lactose	5.0
Phenol red	0.025
Agar	15.0
Final pH (at 25°C)	7.4 ± 0.2

\*Adjusted to suit performance parameters.

#Equivalent to Beef Extract.

### Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines.

For food and dairy samples, follow appropriate techniques for handling specimens as per established guidelines.

For water samples, follow appropriate techniques for handling specimens as per established guidelines and local standards.

Specimens should be obtained before antimicrobial agents have been administered.

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Directions

1. Suspend 41.02 g of the powder in 1000 mL purified / distilled water.
2. Heat to boiling to dissolve the powder completely.
3. Dispense in tubes and sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.
4. Allow the tubed media to cool in slanted position to form slants with deep butts.

### Quality Control

**Dehydrated Appearance:** Light yellow to pink coloured, homogeneous, free flowing powder.

**Prepared Appearance:** Red coloured, clear solution without any precipitate.

**Cultural Response:** Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism (ATCC)	Growth	Acid	Gas
<i>Alcaligenes faecalis</i> (8750)	Good	Negative reaction, no colour change	Negative reaction
<i>Escherichia coli</i> (25922)	Good	Positive reaction, Yellow colour	Positive reaction
<i>Klebsiella pneumoniae</i> (13883)	Good	Positive reaction, yellow colour	Positive reaction
<i>Proteus hauseri</i> (13315)	Good	Negative reaction, No colour change	Negative reaction
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i> (14028)	Good	Negative reaction, No colour change	Negative reaction
<i>Shigella flexneri</i> serotype 2b (12022)	Good	Negative reaction, No colour change	Negative reaction

### Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

### Warranty












This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### Reference

1. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
2. Finegold and Baron, 1986, Bailey and Scotts Diagnostic Microbiology, 7<sup>th</sup> ed., The C.V. Mosby Co., St. Louis.
3. Ewing, 1986, Edwards and Ewings Identification of *Enterobacteriaceae*, 4<sup>th</sup> ed., Elsevier Science Publishing Co., Inc.,
4. Data on file: Microexpress®, A Division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

Cat No.	Product description	Pack Size
201160120100	Dehydrated Culture Media	100 g
201160120500	Dehydrated Culture Media	500 g

 Temperature Limit	 Manufacturer	 Batch Code	 Date of Manufacture	 This way up	 Received on
 Catalogue Number	 Consult Instructions for use	 Use-by Date	 Hygroscopic keep container tightly closed	 Opened on	

Revision: 0825/VER-03

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.