

PHENOL RED DEXTROSE AGAR

 Product Number **P9101**
Product Information
Product Description

Phenol Red Dextrose Agar is recommended for studying the fermentation of dextrose by a pure culture of microorganisms. Proteose peptone which is free from fermentable carbohydrates is added in the agar. With Phenol Red Dextrose Agar a positive carbohydrate fermentation reaction is indicated by the production of a yellow color in the agar, due to acid production. Gas production is indicated by the splitting of agar or by the formation of bubbles.

Components

Item	g/L
Proteose Peptone	10.00
Beef Extract	1.00
Sodium Chloride	5.00
Phenol Red	0.025
Dextrose	10.00
Agar	15.00

Final pH (at 25°C) 7.4 ± 0.2

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 41 grams of Phenol Red Dextrose Agar in 1000 mls of distilled water. Heat with frequent agitation to dissolve the medium completely. Dispense into tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubed agar to cool in a slanted position to form slants with deep butts.

Storage

Store the dehydrated medium at 24°C and the prepared medium at 2-8°C.

Product Profile

Appearance	Pink colored, homogeneous, free flowing powder.
Gelling	Firm.
Color and Clarity	Red colored, slightly opalescent gel forms in tubes as slants.
Cultural Response	Cultural characteristics are observed after 18-24 hours at 35-37°C.

Organisms

Organisms	Growth	Acid	Gas
<i>Alcaligenes faecalis</i>	luxuriant	-	-
<i>Escherichia coli</i>	luxuriant	+	+
<i>Klebsiella pneumoniae</i>	luxuriant	+	+
<i>Proteus vulgaris</i>	luxuriant	+	+
<i>Salmonella typhimurium</i>	luxuriant	+	+
<i>Shigella flexneri</i>	luxuriant	+	-

References

1. MacFaddin, J., (1985). Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Vol. 1. Williams and Wilkins. Baltimore, Maryland.

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.