

Phenol Red Dextrose Agar

Medium similar to the Dextrose Agar, with Phenol Red as pH indicator

Formula in grams per liter:

Peptone Mixture	10,00	Dextrose	10,00
Sodium Chloride	5,00	Phenol Red	0,025
Bacteriological Agar	15,00		

Final pH: 7,4 ± 0,2 at 25 °C

Preparation:

Suspend 40 grams of the dehydrated medium in one liter of distilled water. Soak 10 to 15 minutes. Heat with frequent agitation and boil for one minute. Sterilize at 121°C (15 lbs sp.) for 15 minutes. Once sterilized, cool to 40°C-45°C and pour into petri dishes.

Uses:

Phenol Red Broth Base is recommended for use to determine the ability of organisms to ferment various carbohydrates.

Phenol Red Broth Base is an excellent substrate for streptococci, as well as for other less fastidious bacteria, the growth promotion of the medium can be greatly improved for fastidious.

Phenol Red Dextrose Agar is similar to Dextrose Agar with the addition of phenol red as a pH indicator. It is used to study fermentation reactions of all types of microorganisms.

Microbiological Tests:

Microorganisms	Growth	Acid	Gas production
<i>Alcaligenes faecalis</i> ATCC 8750	Satisfactory	-	-
<i>Escherichia coli</i> ATCC 25922	Satisfactory	+	+
<i>Klebsiella pneumoniae</i> ATCC 13883	Satisfactory	+	+
<i>Proteus vulgaris</i> ATCC 6380	Satisfactory	+	+
<i>Salmonella typhimurium</i> ATCC 14028	Satisfactory	+	+
<i>Shigella flexneri</i> ATCC 12022	Satisfactory	+	-

