

## PHENOL RED BROTH BASE

A liquid medium base for carbohydrate decomposition studies.

<b>Dehydrated media</b>	
Code number:	500 g: PHB20500, 5 kg: PHB25000
Colour:	Pinkish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,2 – 7,6

**Direction:** Suspend **15 g** in one litre of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the filter sterilised sugar (10 g/l) solution to be examined to the medium. Dispense aseptically into sterile test tubes.

<b>Prepared media</b>	
Bottled media bases:	100 ml: PHB30100, 500 ml: PHB30500
Tubed media:	100 x 12 mm: PHB40003-? (3ml) (See the list of sugars and their codes below.)
Colour:	Red
pH (25 °C):	7,3 – 7,5

<b>List of sugars and their supplementary codes</b>							
Name	Code	Name	Code	Name	Code	Name	Code
Adonitol	-01	Glycerine	-07	meso-Inosite	-13	Trehalose	-19
Arabinose	-02	Inulin	-08	Na-tartrate	-14	Xylose	-20
Dulcitol	-03	Starch	-09	Rhamnose	-15	SLS	-21
Fructose	-04	Lactose	-10	Sucrose	-16		
Galactose	-05	Maltose	-11	Salicin	-17		
Glucose	-06	Mannitol	-12	Sorbitol	-18		

**Direction:** Supplement the bottled media bases with the required sugar solution according to the direction of the dehydrated media and dispense aseptically into sterile test tubes. Media in tubes are ready to use.

### FORMULA in g/l

Peptones	10,00
Sodium chloride	5,00
Phenol red	0,02

**Note:** The typical formula can be adjusted to obtain optimal performance.

**Storage conditions:** Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at room temperature. Use before the expiry date on the label.

#### Quality control:

Test strains	Incubation temp: 37 °C	Growth with 10 g/l lactose	Incubation time: 24 h
<i>Escherichia coli</i>	ATCC 25922	Positive: Colour change to yellow	
<i>Salmonella typhimurium</i>	ATCC 14028	Negative: No colour change	

**References:** Ewing (1986) Edwards and Ewing's identification of Enterobacteriaceae, 4th ed.

**In vitro diagnostic – for professional use only!**