

PHENOL RED AGAR BASE

A semi-solid medium base for carbohydrate decomposition studies.

| Dehydrated media | |
|--------------------------------|---------------------------------|
| Code number: | 500 g: PHA20500, 5 kg: PHA25000 |
| Colour: | Pinkish |
| Appearance: | Homogeneous hygroscopic powder |
| pH before autoclaving (25 °C): | 7,2 – 7,6 |

Direction: Suspend **30 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. 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 and allow to cool in slanted position to form slant with deep butt.

| Prepared media | |
|-----------------------|--|
| Bottled media bases: | 100 ml: PHA30100, 500 ml: PHA30500 |
| Tubed media: | 100 x 12 mm: PHA40003-? (3ml) (See the list of sugars and their codes below.) |
| Colour: | Red |
| pH (25 °C): | 7,3 – 7,5 |

| List of sugars and their supplementary codes | | | | | | | |
|---|------|-----------|------|--------------|------|-----------|------|
| 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 melted bottled media bases with the required sugar solution according to the direction of the dehydrated media. Dispense aseptically into sterile test tubes and allow to cool in slanted position to form slant with deep butt. Media in tubes are ready to use.

FORMULA in g/l

| | |
|-----------------|-------|
| Peptones | 10,00 |
| Sodium chloride | 5,00 |
| Phenol red | 0,02 |
| Agar | 15,00 |

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 media protected from light at room temperature. Store the tubed media protected from light at 2-8 °C. 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!