

## TMV 824 – PHENOLPHTHALEIN PHOSPHATE AGAR (VEG.)

### INTENDED USE

For identification of phosphatase positive *Staphylococcus aureus*.

### PRODUCT SUMMARY AND EXPLANATION

This medium is prepared by using Veg peptone and Veg extract in place of Peptic digest of animal tissue and Beef extract which make the medium free of BSE/TSE risks. Phenolphthalein Phosphate Veg Agar is the modification of Phenolphthalein Phosphate Agar which is used for the identification of phosphatase positive colonies of *Staphylococcus aureus* which is a coagulase positive pathogenic strain. Phosphatase production is determined by the liberation of phenolphthalein which is indicated by the change in colour of the medium. When alkali is added to this medium, the liberated phenolphthalein gives bright pink - red colouration.

### COMPOSITION

Ingredients	Gms / Ltr
Veg peptone	5.000
Veg extract	3.000
Sodium chloride	5.000
Sodium phenolphthalein phosphate	0.012
Agar	15.000

### PRINCIPLE

This media contains Veg peptone and Veg extract that supply the nitrogenous compounds, growth factors and trace ingredients essential for the growth of *Staphylococcus aureus*. Sodium phenolphthalein phosphate serves as a substrate for the phosphatase enzyme. Sodium chloride maintains osmotic equilibrium.

### INSTRUCTION FOR USE

- Dissolve 28.00 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Yellow coloured clear gel forms in tubes as slants.
pH (at 25°C)	: 7.4 ± 0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Phosphatase (after incubation add 1 drop of 40% NaOH)	Incubation Temperature	Incubation Period
---------------	------	-------------------	--------	---	------------------------	-------------------

<i>Escherichia coli</i>	25922	50-100	Luxuriant	-	35-37°C	18-24 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	Bright pink colour on addition of 40% NaOH	35-37°C	18-24 Hours
<i>Staphylococcus epidermidis</i>	12228	50-100	Luxuriant	Bright pink colour on addition of 40% NaOH	35-37°C	18-24 Hours

#### PACKAGING:

In pack size of 100 gm and 500 gm bottles.

#### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

#### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

#### REFERENCES

1. MacFaddin J.F., 2000, Biochemical Tests for Identification of Medical Bacteria, 2nd ed., Williams and Wilkins, Baltimore.
2. Lewis B., 1961, J. Med. Lab. Technol., 18: 112.
3. Barber M. and Kuper S.W.A., 1951, J. Pathol. Bacteriol., 63:65.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Barkstrasse 10, 49163 Moenster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
**Revision: 08 Nov., 2019**