TMV 334 – DEXTROSE AGAR (VEG.)

INTENDED USE
For cultivation of wide variety of microorganisms.

PRODUCT SUMMARY AND EXPLANATION
These media are prepared by completely replacing animal based peptones with vegetable peptones. Dextrose Veg media are the modification of Dextrose Media which are used for the cultivation of wide variety of microorganisms and specially used for making Dextrose Blood Agar. Dextrose Agar (Veg) like the conventional medium is used for antibiotic sensitivity testing using tube dilution method. This agar was found to be superior compared to Soyabean Veg Medium, particularly for sensitivity testing of Neomycin and Chlortetracycline.

COMPOSITION

Ingredients	Gms / Ltr
Veg hydrolysate No. 1	10.000
Veg extract	3.000
Dextrose	10.000
Sodium chloride	5.000
Agar	15.000

PRINCIPLE
The medium consists of contains high concentration of dextrose as an energy source for the rapid growth of microorganisms. However, this medium is not very suitable for the study of haemolysis because of high sugar content. Veg extract and Veg Hydrolysate No. 1 serve as sources of nitrogenous compounds, sulphur, carbon, vitamins and minerals. Osmotic balance is maintained by sodium chloride.

INSTRUCTION FOR USE
- Dissolve 43 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15psi pressure (121°C) for 15 minutes. If desired, Blood Agar can be prepared by the addition of 5% v/v sterile, defibrinated sheep blood into sterile Dextrose Agar (Veg).
- Mix well and pour into sterile petri plates.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Light yellow coloured may have slightly greenish tinge, homogeneous, free flowing powder.

Appearance of prepared medium : Light yellow coloured, clear to slightly opalescent gel forms in petri plates.

pH (at 25°C) : 7.3 ± 0.2

INTERPRETATION
Cultural characteristics observed after incubation.

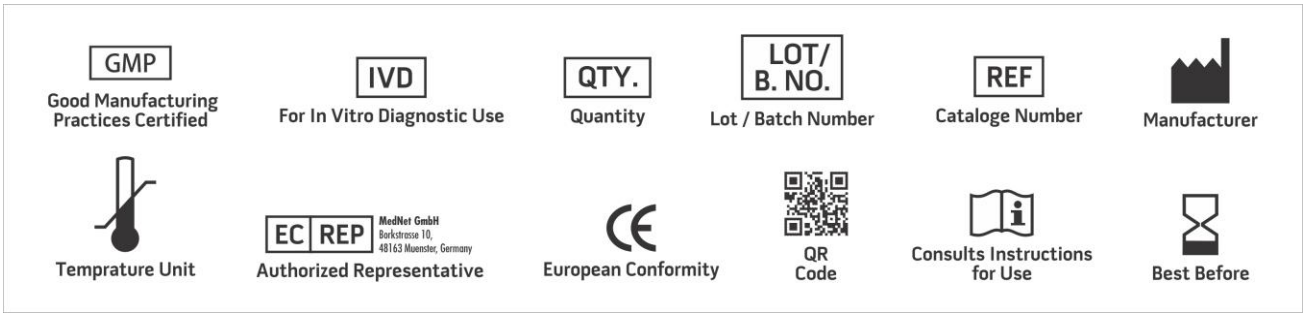
Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Growth w/ blood	Recovery w/ Blood	Incubation Temperature	Incubation Period
Bordetella pertussis	8467	50-100	Good-luxuriant	50-70%	Luxuriant	>=70%	35-37 °C	18-24 Hours
Neisseria meningitidis	13090	50-100	Good-luxuriant	50-70%	Luxuriant	>=70%	35-37 °C	18-24 Hours
Neisseria gonorrhoeae	19424	50-100	Good-luxuriant	50-70%	Luxuriant	>=70%	35-37 °C	18-24 Hours
Streptococcus pyogenes	19615	50-100	Good-luxuriant	50-70%	Luxuriant	>=70%	35-37 °C	18-24 Hours
Clostridium perfringens	12919	50-100	Fair-good	40-50%	Luxuriant	>=70%	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. Norton, 1932, J. Lab. Clin. Med., 17:585.
2. Walsbren Carr and Dunnett, 1951, Am. J. Clin. Path. 21:884.



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

***For Lab Use Only**

Revision: 08 Nov., 2019