

## TM 550 – VIOLET RED BILE GLUCOSE AGAR W/ LACTOSE (as per EP)

### INTENDED USE

For detection and enumeration of *Enterobacteriaceae* in raw foods.

### PRODUCT SUMMARY AND EXPLANATION

It is selective medium recommended for detection of all the members of the *Enterobacteriaceae* as recommended by EP and BP. Mossel et al added glucose to the medium observing improved detection of coliforms. Incubation can be carried out at different temperatures and incubation time depending upon the group of *Enterobacteriaceae* to be recovered.

### COMPOSITION

Ingredients	Gms / Ltr
Agar	15.000
Glucose monohydrate	10.000
Lactose monohydrate	10.000
Pancreatic digest of gelatin	7.000
Sodium chloride	5.000
Yeast extract	3.000
Bile salts	1.500
Neutral red	0.030
Crystal violet	0.002

### PRINCIPLE

Pancreatic digest of gelatin and yeast extract provide nutrients to the bacteria while lactose, dextrose and neutral red mixture helps to detect dextrose and lactose fermentation. Bile salts mixture and crystal violet select the growth of Gram negative intestinal bacteria.

### INSTRUCTION FOR USE

- Dissolve 50.13 grams in 1000 ml purified/ distilled water.
- Heat to boiling to dissolve the medium completely.
- DO NOT AUTOCLAVE. Mix well and pour into sterile plates.

### QUALITY CONTROL SPECIFICATIONS

Appearance of dehydrated medium	:	Pale yellow to pinkish beige homogeneous free flowing powder
Appearance of prepared medium	:	Reddish purple coloured clear to slightly opalescent gel forms
pH (at 25°C)	:	7.4±0.2

### INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Colony of colony	Incubation Temperature	Incubation Period
<i>Enterobacter aerogenes</i>	13048	50-100	Good-luxuriant	Pink-red	35 - 37°C	18 - 24 hours
<i>Escherichia coli</i>	25922	50-100	Good-luxuriant	Pink-red	35 - 37°C	18 - 24 hours
<i>Salmonella Enteritidis</i>	13076	50-100	Good-luxuriant	Light Pink	35 - 37°C	18 - 24 hours
<i>Staphylococcus aureus</i>	25923	≥1000	Inhibited	-	35 - 37°C	18 - 24 hours

**PACKAGING:**

In pack size of 500 gm bottle.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 10-25°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. The European Pharmacopoeia, 4th Edition 2002, Council of Europe, Strasbourg.
2. The British Pharmacopoeia, 4th Edition 2002, Council of Europe, Strasbourg.
3. Mossel D.A.A., Mengerink W.H.J. & Scholts H.H., 1962, J. Bacteriol, 84:381.
4. Mossel D.A.A. et al, 1978, Lab. practice, 27 No. 12 : 1049
5. Mossel D.A.A. et al, 1979, Food Protect., 42 : 470.
6. Mossel D.A.A. et al, 1986, J. Appl. Bact., 60 : 289.



 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Buckstrasse 10, 49163 Muenster, Germany</small>	 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: 28 Sep, 2022**