

CM 20330 – BUFFERED GLYCEROL SALINE BASE

INTENDED USE

For collection and transportation of faecal specimens.

PRODUCT SUMMARY AND EXPLANATION

Specimens which can't be processed immediately after collection, or those which need to be sent to a distant reference laboratory, should be properly preserved to maintain the viability of the specimens. In general, most specimens should be processed in the laboratory within 1 to 2 hours after collection. Buffered Glycerol Saline Base was first reported by Teague and Clurman and later modified by Sachs. Buffered Glycerol Saline is used for collection and transportation of faecal specimens.

COMPOSITION

Ingredients	Gms / Ltr
Sodium chloride	4.200
Dipotassium hydrogen phosphate	3.100
Potassium dihydrogen phosphate	1.000
Phenol red	0.003

PRINCIPLE

The medium contains sodium chloride, which provides essential ions. Dipotassium and monopotassium phosphate provides buffering to the medium. Phosphate buffers along with glycerol are used to recover pathogenic bacteria. Prepared medium should have a light pink colour indicating slightly alkaline pH. If the medium turns yellow i.e. acidic then it should be discarded because of unfavorable effect on dysentery bacilli if they are present in the specimens.

INSTRUCTION FOR USE

- Dissolve 8.3 grams in 700 ml distilled water.
- Add 300 ml of glycerol.
- Mix well and dispense in screw capped tubes or suitable containers.
- Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder : Light yellow to pink homogeneous free flowing powder
- Appearance of prepared medium : Light pink coloured, clear solution without any precipitate
- pH (at 25°C) : 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Growth	Incubation Temperature	Incubation Period
Neisseria meningitidis	13090	Good-luxuriant	35-37°C	18-24 Hours.



Staphylococcus aureus	25923	Good-luxuriant	35-37°C	18-24 Hours.
Staphylococcus epidermidis	12228	Good-luxuriant	35-37°C	18-24 Hours.
Streptococcus pneumoniae	6303	Good-luxuriant	35-37°C	18-24 Hours.
Streptococcus pyogenes	19615	Good-luxuriant	35-37°C	18-24 Hours.

PACKAGING:

Inpacksizeof100gm 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.

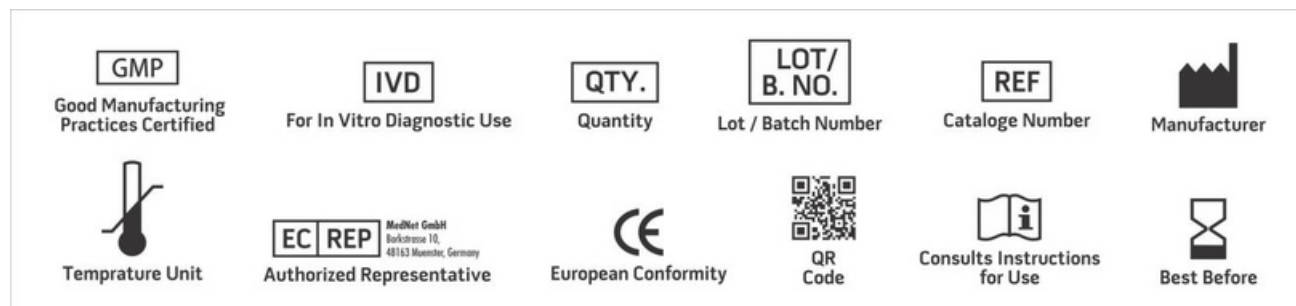
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Isenberg, H.D.Clinical Microbiology Procedures Handbook 2nd Edition.
2. Diagnostic Procedures and Reagents, 1963, 4th Ed., American Public Health Association, Inc., New York.
3. Koneman E. W., Allen S. D., Janda W. M., Schreckenberger P. C., Winn W. C. Jr., 1992, Colour Atlas and Textbook of Diagnostic Microbiology, 4th Ed., J. B. Lippincott Company
4. Sachs, 1939, J. Roy Arury Med. Corp., 73:235.
5. Teague and Clurman, 1916, J. Inf. Dis., 18:653.



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

*ForLabUseOnly



