

CM 20984 – LISTERIA SELECTIVE BROTH BASE (VEG.)

INTENDED USE

For selective isolation and cultivation of *Listeria monocytogenes* from clinical specimens.

PRODUCT SUMMARY AND EXPLANATION

Listeria Selective Broth Base (Veg) is prepared by completely replacing animal based peptones with vegetable peptones which makes the medium free from BSE/TSE risks. Listeria Selective Broth Base (Veg) is the modification of Listeria Selective Broth Base formulated as per Lovett et al for the selective enrichment of *Listeria* species from milk and milk products and other foods.

COMPOSITION

Ingredients	Gms / Ltr
Veg hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Yeast extract	6.000
Sodium Chloride	5.000
Dipotassium hydrogen phosphate	2.500
Dextrose	2.500

PRINCIPLE

This medium consists of Veg hydrolysate, Papaic digest of soyabean meal and yeast extract which provide carbon and nitrogen compounds essential for bacterial metabolism. Dextrose is the energy source. The medium is rendered selective by addition of selective supplement. Amphotericin B inhibits the growth of saprophytic fungi. Nalidixic acid inhibits growth of gram-negative organisms and Acriflavin suppresses gram-positive microorganisms.

INSTRUCTION FOR USE

Dissolve 36.0 grams in 1000 ml purified/distilled water.

Heat if necessary to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Cool to room temperature and aseptically add rehydrated contents of 1 vial of Listeria Selective Supplement II or 2 vials of Listeria Selective Supplement II as desired.

Mix well and dispense into sterile tubes or flasks or as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Fluorescent yellow coloured, clear solution without any precipitate.
pH (at 25°C)	: 7.3 ± 0.2

INTERPRETATION

Cultural characteristics observed with added Listeria Selective Supplement II after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Listeria monocytogenes	19118	50-100	Luxuriant	30°C	24-48 Hours
Listeria monocytogenes	19112	50-100	Luxuriant	30°C	24-48 Hours
Listeria monocytogenes	19111	50-100	Luxuriant	30°C	24-48 Hours
Escherichia coli	25922	$\geq 10^4$	Inhibited	30°C	24-48 Hours
Candida albicans	10231	$\geq 10^4$	Inhibited	30°C	24-48 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	None-poor	30°C	24-48 Hours

PACKAGING:

Inpacksize of 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. Lovette J., Francis D.W. and Hunt J.M., 1987, J. Food Protection, 50:188.
2. Lee W.K. and McClain D., 1986, Appl. Environ. Microbiol., 52:1215.
3. McClain D. and Lee W.H., 1988, J. Assoc. off. Anal. Chem., 71:660.
4. Agello G., Hayes P. and Fuley J., 1986, Abstracts of the Annual Meeting, ASM, Washington, D.C.



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 MedNet GmbH Buckstraße 10, 48153 Münster, 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 LabUse Only

