

TM 1908 – COLIFORM BROTH W/ SLS

INTENDED USE

For detection of *E.coli* and other Enterobacteriaceae in water samples.

PRODUCT SUMMARY AND EXPLANATION

Coliform Broth w/SLS is a selective medium recommended for the simultaneous detection of *Escherichia coli* and total coliforms in water and food samples. The enzyme β -glucuronidase produced by *E.coli* cleaves X-glucuronide thus imparting blue colour to the medium. Formation of cherry red colour after addition of few drops (0.5ml) of Kovac's reagent to the medium indicates the presence of *E.coli*.

COMPOSITION

Ingredients	Gms / Ltr
Special peptone	3.000
Sodium chloride	5.000
Dipotassium hydrogen phosphate	3.000
Potassium dihydrogen phosphate	1.700
Sodium puruvate	1.000
L-Tryptophan	1.000
Sodium lauryl sulphate (SLS)	0.100
Chromogenic mixture	0.300

PRINCIPLE

Special peptone supplies the essential growth nutrients to the organisms. The phosphates in the medium buffers the medium. Sodium chloride maintains the osmotic balance. Sodium lauryl sulphate inhibits the gram positive organisms. L-Tryptophan in the medium improves the indole reaction.

INSTRUCTION FOR USE

- Dissolve 15.10 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 45-50°C.
- Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Cream, clear to slightly opalescent solution, may have slight precipitate.
pH (at 25°C)	: 6.8±0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Colour of colony	Incubation Temperature	Incubation Period
<i>Shigella flexneri</i>	12022	50-100	Luxuriant	Colourless	35-37°C	18-24 Hours
<i>Staphylococcus aureus</i>	25923	$\geq 10^3$	Inhibited	-	35-37°C	18-24 Hours
<i>Enterococcus faecalis</i>	29212	$\geq 10^3$	Inhibited	-	35-37°C	18-24 Hours
<i>Citrobacter freundii</i>	8090	50-100	Luxuriant	Colourless	35-37°C	18-24 Hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	Blue	35-37°C	18-24 Hours
<i>Salmonella Enteritidis</i>	13076	50-100	Good	Colourless	35-37°C	18-24 Hours
<i>Escherichia coli</i>	35218	50-100	Luxuriant	Blue	35-37°C	18-24 Hours
<i>Klebsiella pneumoniae</i>	13883	50-100	Luxuriant	Colourless	35-37°C	18-24 Hours
<i>Staphylococcus aureus</i>	6538	$\geq 10^3$	Inhibited	-	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. Frampton E. W., Restaino L. and Blaszkowski N., 1988, J. Food Prot., 51:402.
2. Kilian M. and Bülow P., 1976, Acta. Pathol. Microbiol. Scand., Sect. B, 84:245.
3. LeMinor L. and Hamida F., 1962, Ann. Inst. Pasteur (Paris), 102:267.



4. Manafi M. and Kneifel W., 1989, Zentralbl. Hyg., 189:225.

 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 Barkstrasse 10, 48163 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**
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