

TM 917 – WILSON BLAIR AGAR W/ BG (BRILLIANT GREEN)

INTENDED USE

For isolation and preliminary identification of *Salmonella* Typhi from clinical samples.

PRODUCT SUMMARY AND EXPLANATION

Wilson and Blair Agar was formulated by Wilson and Blair for isolating *Salmonella* species especially *Salmonella* serotype Typhi from clinical specimens.

COMPOSITION

Ingredients	Gms / Ltr
Beef extract	5.000
Peptic digest of animal tissue	10.000
Dextrose	5.000
Disodium phosphate	4.000
Ferrous sulphate	0.300
Bismuth sulphite indicator	8.000
Brilliant green	0.025
Agar	20.000

PRINCIPLE

The medium consists of Peptic digest of animal tissue and beef extract which provide nitrogenous, carbonaceous compounds and other growth nutrients. Brilliant green dye inhibits all gram-positive bacteria. Dextrose is the fermentable carbohydrate. Ferrous sulphate is an indicator of H₂S production. Bismuth is a heavy metal which is inhibitory to most gram-negative enteric bacilli other than *Salmonella*. Ferrous sulphate is reduced by *Salmonella* species in presence of bismuth sulphite and dextrose to form iron sulphide, indicated by black coloured colonies.

INSTRUCTION FOR USE

- Dissolve 52.32 grams in 1000 ml distilled water.
- Heat gently with frequent agitation until the medium is dissolved completely. DO NOT AUTOCLAVE.
- Cool to 50-55°C. Mix well to disperse precipitate and pour thick plates (25 ml medium per plate).
- Dry the plates before use, avoiding over drying.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Creamish coloured homogeneous free flowing powder.

Appearance of prepared medium : Light greenish yellow coloured clear to slightly opalescent gel, with slight precipitation.

pH (at 25°C) : 7.7 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Growth	Recovery	Colour of colony	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	Inhibited	0%	-	35-37°C	24-48 Hours
<i>Proteus mirabilis</i>	25933	Good	>=50%	Green	35-37°C	24-48 Hours
<i>Salmonella Typhi</i>	6539	Good	>=50%	Black with sheen	35-37°C	24-48 Hours
<i>Salmonella Typhimurium</i>	14028	Good	>=50%	Black with sheen	35-37°C	24-48 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 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

- Wilson and Blair, 1929, J. Pathol. Bacteriol., 29 : 310.
- MacFaddin J., 1985, Media for the Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.

 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>MediMet GmbH Buckstrasse 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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