

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.

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

precipitation.

: 7.7 ± 0.2 pH (at 25°C)

INTERPRETATION

Cultural characteristics observed after incubation.











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

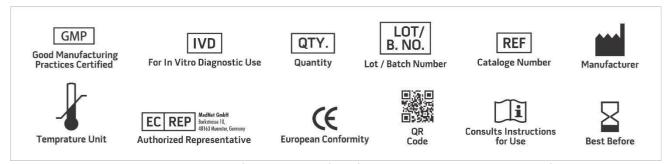
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

- 1. Wilson and Blair, 1929, J. Pathol. Bacteriol., 29: 310.
- $2.\ Mac Faddin\ J.,\ 1985,\ Media\ for\ the\ Isolation-Cultivation-Identification-Maintenance\ of\ Medical\ Bacteria,\ Vol.\ 1,\ Williams\ and\ Wilkins,\ Baltimore.$



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











PRODUCT DATA SHEET

*For Lab Use Only Revision: 13 May., 2023









