

TM 1308 – TRICHOMONAS BROTH BASE NO.2

INTENDED USE

For isolation of Trichomonas vaginalis.

PRODUCT SUMMARY AND EXPLANATION

Trichomonas Broth Base No.2 is used for the isolation of *Trichomonas vaginalis*. Stenton reported that incorporation of liver digest in the medium plays an important role in detection of *Trichomonas vaginalis*. Addition of Horse serum makes the medium highly nutritious got *T. vaginalis*. The medium is equally suitable for the examination of urethral and vaginal swabs and urine specimens.

COMPOSITION

Ingredients	Gms / Ltr	
Glucose	22.500	
Liver digest	18.000	
Casein enzymic hydrolysate	17.000	
Sodium chloride	5.000	
Papaic digest of soyabean meal	3.000	
Dipotassium hydrogen phosphate	2.500	
Chloramphenicol	0.125	
Calcium pantothenate	0.005	

PRINCIPLE

Casein enzymic hydrolysate and papaic digest of soyabean meal and liver digest provide the nitrogenous substances. Glucose acts as the energy source. The selective agent chloramphenicol is inhibitory to gram-positive and gram-negative bacteria but not for *Trichomonas* species. Sodium chloride maintains the osmotic equilibrium of the medium. Dipotassium phosphate buffers the medium. Calcium pantothenate acts as a growth factor. The small amount of agar helps to create anaerobiosis.

INSTRUCTION FOR USE

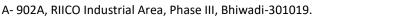
- Dissolve 68.13 grams in 750 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Mix thoroughly. Sterilize by autoclaving at 5 psi pressure (108°C) for 15 minutes. Cool to 45-50°C.
- Aseptically add 250 ml of sterile horse serum.
- Mix thoroughly and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to light brown homogeneous free flowing powder.		
Appearance of prepared medium	: Dark amber coloured clear solution in tubes		
pH (at 25°C)	: 6.2±0.2		

INTERPRETATION

Cultural characteristics observed after incubation with added horse serum.



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PRODUCT DATA SHEET

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Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Candida albicans	10231	10-100	Good-luxuriant	35-37°C	3-5 Days
Escherichia coli	25922	50-100	Inhibited	35-37°C	3-5 Days
Trichomonas vaginalis	30001	50-100	Good-luxuriant	35-37°C	3-5 Days

PACKAGING:

In pack size 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.

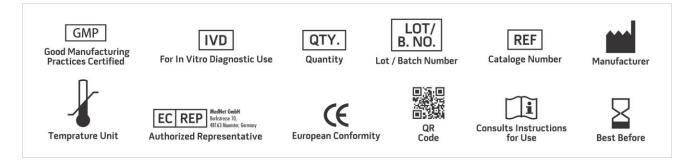
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1.Ronald M. Atlas : Handbook of Microbiological Media 3rd edition CRC Press. 2.Stenton P, 1957, J . Med Lab. Technol, 14:228.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. *For Lab Use Only Revision: 08 Nov., 2019