Thioglycollate Medium Modified (KP)

Medium used for the cultivation and enumeration of anaerobic organisms and for the sterility testing of biologics.
*Equally use with USP and EP.

• CONTENTS (Liter)

Yeast Extract	5.0 g
Casein Peptone	15.0 g
Dextose	5.0 g
Sodium Chloride	2.5 g
L-Cystine	0.5 g
Sodium Thioglycollate	0.5 g

Final pH = 7.1 ± 0.2 at 25˚C

• PROCEDURE

Suspend 28.5 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Pour into tubes. Sterilize by autoclave at 121˚C for 15 minutes. Cool to 45 - 50˚C in water bath. Store thioglycollate media at 2 - 25˚C.

• INTERPRETATION

Thioglycollate Medium Modified (KP) is a medium used for the cultivation and enumeration of anaerobic organisms and for the sterility testing of biologics. Yeast extract and casein peptone provide carbon, nitrogen, vitamins and menerals. Dextrose is a source of carbohydrate. Sodium chloride maintains the osmotic balance. L-Cystine and sodium thioglycollate are the reducing agents.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 30 - 35˚C for 48 ± 3 hours up to 3 days under anaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: beige
Prepared medium
Appearance : clear to slightly opalescent
Color: light amber
Incubation conditions: 30 - 35˚C / 48 ± 3 hours up to 3 days under anaerobic condition

Microorganism	Inoculum CFU	ATCC	Growth
Clostridium perfringens	13124	50-100	good
Clostridium sporogenes	19404	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 25°C.

• REFERENCES

1. N.I.H. Memorandum, 1955: Culture Media for Sterility Tests, 4th Revision.
2. Refer to the KP, USP and EP.

• PACKAGE

Cat. No : MB-T1623P Thioglycollate Medium Modified (KP)	500 G