

## Microbial Content Test Broth Base

General purpose medium for environmental and personnel monitoring with inactivation of disinfectants.

TYPICAL FORMULA	(g/l)
Pancreatic Digest of Casein	17.0
Papaic Digest of Soybean Meal	3.0
Sodium Chloride	5.0
Dipotassium Hydrogen Phosphate	2.5
Glucose	2.5
Lecithin	0.7
Final pH 7.3 ± 0.2 at 25°C	

### DESCRIPTION

Microbial Content Test Broth Base is a medium used with Tween 80 (polysorbate 80) for determining the hygiene status of equipment and work areas treated with disinfectants. It is recommended as subculture medium for the neutralization of quaternary ammonium compounds in disinfectant testing.

### PRINCIPLE

Pancreatic digest of casein and papaic digest of soybean meal provide amino acids, nitrogen, carbon, minerals, vitamins and other nutrients which support the growth of microorganism. Sodium chloride maintains the osmotic balance of the medium. Dipotassium hydrogen phosphate is the buffer. Glucose is the fermentable carbohydrate. Lecithin neutralizes quaternary ammonium compounds. Tween 80 Supplement (ref. 80031) is added to neutralize phenols, hexachlorophene, formalin, and with Lecithin, ethanol.

### PREPARATION

Suspend 30.7 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add 5 ml of Tween 80 Supplement. Mix well.

### TECHNIQUE

Microbial Content Test Broth Base is used in a variety of procedures. Consult appropriate references for complete information.

### INTERPRETATION OF RESULTS

The turbidity of the broth culture typically indicates microbial growth. Refer to appropriate references and procedures for further information.

### STORAGE AND TRANSPORT CONDITIONS

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

### WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use and must be used by properly trained operators only.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

- Association of Official Analytical Chemists (1995) Official methods of analysis, 16th ed. Association of Official Analytical Chemists, Washington, D.C.
- American Society for Testing Materials (1991) Standard test method for preservatives in water-containing cosmetics, E 640-78. Annual Book of ASTM Standards, Philadelphia, PA.
- Brummer, B. (1976) Influence of possible disinfectant transfer on Staphylococcus aureus plate counts after contact sampling. Appl. Environ. Microbiol. 32:80-84.
- Favero (chm.) (1967) Microbiological sampling of surfaces-a state of the art report. Biological Contamination Control Committee, American Association for Contamination Control.
- Erlandson, A. L., Jr., and C. A. Lawrence (1953) Inactivating medium for hexachlorophene (G-11) types of compounds and some substituted phenolic disinfectants. Science. 118:274-276.
- Weber, G. R., and L. A. Black (1948) Relative efficiency of quaternary inhibitors. Soap and Sanit. Chem. 24:134-139.
- Quisno, R., I. W. Gibby, and M. J. Foter (1946) A neutralizing medium for evaluating the germicidal potency of the quaternary ammonium salts. Am. J. Pharm. 118:320-323.



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## PRODUCT SPECIFICATIONS

### NAME

Microbial Content Test Broth Base

### PRESENTATION

Dehydrated medium

### STORAGE

10-30°C

### PACKAGING

Ref.	Content	Packaging
610380	500 g	500 g of powder in plastic bottle
620380	100 g	100 g of powder in plastic bottle

### pH OF THE MEDIUM

7.3 ± 0.2

### USE

Microbial Content Test Broth Base is a medium used with Tween 80 (polysorbate 80) for determining the hygiene status of work areas treated with disinfectants

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

#### Powder medium

Appearance: free-flowing, homogeneous

Colour: beige

#### Ready-to-use medium

Appearance: clear

Colour: light amber

### SHELF LIFE










4 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: ≤100 CFU  
Incubation Conditions: 40-48 h at 35 ± 2°C, in aerobiosis

Microorganism		Growth
<i>Escherichia coli</i>	ATCC® 11229	Good
<i>Staphylococcus aureus</i>	ATCC® 6538	Good

### TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult instructions for use	



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