

## WILKINS CHALGREN BROTH

Medium for the cultivation of anaerobic microorganisms.

TYPICAL FORMULA	(g/l)
Tryptone	10.0
Peptone	10.0
Yeast Extract	5.0
Sodium Chloride	5.0
Dextrose	1.0
L-Arginine	1.0
Sodium Pyruvate	1.0
Hemin	0.005
Vitamin K	0.0005
Final pH 7.1 ± 0.2	

### DESCRIPTION

WILKINS CHALGREN BROTH is a medium used for the cultivation of anaerobic microorganisms. This medium does not require the addition of blood to support satisfactory growth of most anaerobes and can be used for the antibiotic susceptibility testing of these microorganisms.

### PRINCIPLE

Tryptone, and peptone are sources of carbon, nitrogen, vitamins and minerals. Yeast extract provides essential vitamins and other growth factor. Sodium chloride maintains the osmotic balance of the medium. Dextrose is a carbon source. L-arginine contributes to growth of *Eubacterium lentum*. Sodium pyruvate is a energy source for *Veillonella* spp and acts as an oxygen scavenger. Hemin and vitamin K are added as essential growth factors for a number of species of anaerobes.

### TECHNIQUE

Inoculate and incubate at 35+/-2°C under anaerobic conditions for 40-48 hours.

### INTERPRETATION OF RESULTS

Refer to appropriate references for results.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### 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 *in vitro* diagnostic use only and must be used by properly trained operators.

### DISPOSAL OF WASTE

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

### REFERENCES

- Wilkins D.T. and S. Chalgren (1976) Medium for use in antibiotic susceptibility testing of anaerobic bacteria. Antimicrob. Agents Chemoter. 10:926.
- Smith L.D.S. (1975) The pathogenic anaerobic bacteria 2<sup>nd</sup> ed. Charles C. Thomas, Springfield, Ill.
- Isenberg, H.D. (1992) Clinical Microbiology Procedures Handbook. ASM. Washington D.C.
- Murray, P.R., E.J. Baron, M.A. Pfaller, F.C. Tenover, and R.H. Tenover. (2003) Manual of Clinical Microbiology. 8<sup>th</sup> ed. Vol. 1 ASM. Washington D.C.
- CLSI M11-A7 (2007) Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria; Approved Standard 7<sup>th</sup> ed.



**LIOFILCHEM® S.r.l.**

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## PRODUCT SPECIFICATIONS

### NAME

WILKINS CHALGREN BROTH

### PRESENTATION

Glass tubes containing 10 ml of medium and Durham tube

### STORAGE

10-25°C

### PACKAGING

Ref.	Content	Packaging
24417	20 tubes x 10 ml	20 tubes in cardboard box

### pH OF THE MEDIUM

7.1 ± 0.2

### USE

WILKINS CHALGREN BROTH is a medium used for the cultivation of anaerobic microorganisms

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

#### Powder medium

Appearance: homogeneous, free-flowing

Colour: light beige

#### Ready-to-use medium

Appearance: clear to lightly hazy

Colour: light to medium amber

### SHELF LIFE

2 years

### QUALITY CONTROL








- Control of general characteristics, label and print
- Sterility control  
7 days at 22 ± 1°C, in aerobiosis  
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control  
Inoculum for productivity: 10-100 UFC/ml  
Inoculum for selectivity: 10<sup>4</sup>-10<sup>5</sup> UFC/ml  
Inoculum for specificity: ≤10<sup>4</sup> UFC/ml  
Incubation Conditions: 24-72 h at 36 ± 1°C, in anaerobiosis

#### Microorganisms

#### Growth

<i>Bacteroides fragilis</i>	ATCC 25285	Good
<i>Clostridium perfringens</i>	ATCC 13124	Good

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	<b>IVD</b> <i>In vitro</i> Diagnostic Medical Device	 Manufacturer	 Use by	 Fragile, handle with care
<b>REF</b> Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult instructions for use	 Do not reuse



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