Blood AD Clindamycin 0.03-32

ENGLISH

Device for clindamycin susceptibility testing of anaerobes with the agar dilution method.

DESCRIPTION

Blood AD Clindamycin 0.03-32 is a 12-well panel containing the antibiotic incorporated into an agar medium in different concentrations, i.e. 11 two-fold dilutions ranging from 0.03 to 32 µg/mL.

The device is used to perform the Agar Dilution (AD) method for clindamycin susceptibility testing of anaerobic bacteria as recommended by CLSI standard but in a simpler and less time-consuming way.

KIT CONTENT (kit for 6 tests)

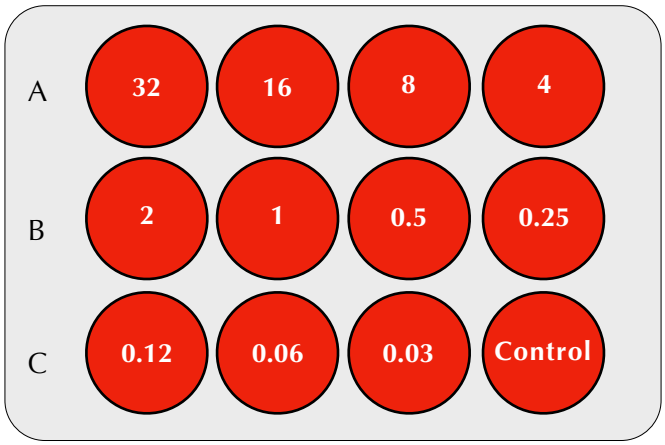
- 6 panels of Blood AD Clindamycin 0.03-32 (individually packed in plastic bag)
- 1 Reading Template
- 1 Instructions Sheet, also available at **www.liofilchem.com/ifu-sds**
- 1 Test Results Form

ITEMS NECESSARY BUT NOT INCLUDED IN THE KIT

- McFarland 0.5 Barium Sulphate Standard (ref. 80400)
- Brucella broth (ref. 24418)

CONFIGURATION

Clindamycin MIC range: 0.03 - 32 µg/mL



Growth-control: No antimicrobial agent in the well.

PRINCIPLE OF THE METHOD

All wells are inoculated with a standardized microbial suspension.
After incubation the MIC result is read and interpreted.

COLLECTION AND STORAGE OF THE SAMPLE

Blood AD Clindamycin 0.03-32 is not for use directly with clinical or other specimens. The microorganism to be tested must first be isolated on a suitable non-selective culture medium. In case of mixed culture, selected colonies should be purified by subculturing.

TEST PROCEDURE

1. Take a panel from its envelope and leave it at room temperature for 10 min.
2. Prepare a suspension of the test organism in Brucella broth (ref. 24418) or another reduced broth using either the direct colony suspension or growth method.
3. Standardize the suspension to the density of a McFarland 0.5 standard.
4. Dispense 2 µL of the inoculum solution over the agar surface (*) into each well (the final inoculum concentration should be approximately 10^5 CFU per spot). Inoculate the growth-control well (no antimicrobial agent) first and then, starting with the lowest concentration, inoculate the other wells containing the different antimicrobial concentrations.
5. Let the inoculated panel stand at room temperature until the moisture in the inoculum spots has been absorbed into the agar (i.e., until the spots are dry).
6. Cover the panel with the lid provided and incubate in an anaerobic jar or alternative anaerobic environment at 36 ± 1°C for 42–48 hours.

* Brucella Agar:
Pancreatic digest of casein 10 g, Peptic digest of animal tissue 10 g, Dextrose 1 g, Yeast extract 2 g, Sodium chloride 5 g, Sodium bisulfite 0.1 g, Agar 17 g, Distilled water 1000 ml
Hemin 5 µg/L, Vitamin K1 10 µg/mL, Laked sheep blood (5% v/v)

READING THE RESULTS

At the end of the incubation period observe the growth in the wells and establish the MIC, i.e. the minimum concentration at which a marked reduction occurs in the appearance of growth compared with that of the control well.

The results are read visually.

The Reading Template provided with the kit allows to determine quickly the correct MIC result.

Note: Ensure that the panel is properly positioned before reading the results, the ABC on the template must match the ABC on the panel.

The growth-control well should be evaluated first. Make sure it is positive for growth. If not, check the viability of the colonies picked and repeat the test using a new panel and a microbial culture of recent growth.

Note the results on the Test Results Form (copy as many forms as necessary).

INTERPRETATION OF THE RESULTS

The MIC obtained should be interpreted according to current CLSI interpretative criteria.

USER QUALITY CONTROL

Quality control of Blood AD Clindamycin 0.03-32 is performed using the following reference strains:

Strain		MIC range (µg/mL)
Bacteroides fragilis	ATCC® 25285	0.5-2
Bacteroides thetaiotaomicron	ATCC® 29741	2-8

FACTORS THAT MAY INVALIDATE THE RESULTS

Contaminated culture; poor standardization of the inoculum; clinical material unsuitable; use of expired panels or expired supplementary reagents; non compliance with temperatures and times of incubation.

PRECAUTIONS

The product Blood AD Clindamycin 0.03-32 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. Blood AD Clindamycin 0.03-32 is a disposable device for professional use only. The product must be used in the laboratory by properly trained personnel, using approved aseptic and safety methods for handling pathogenic agents.

STORAGE

Store Blood AD Clindamycin 0.03-32 at 2-8°C in the original packaging. Keep away from direct sunlight and direct heat. Do not use the panels beyond the expiry date indicated on the label. Eliminate without using if there are signs of deterioration.

DISPOSAL OF USED MATERIAL

After use, Blood AD Clindamycin 0.03-32 and material that has come into contact with the sample must be decontaminated and disposed of in accordance with guidelines used in the laboratory for decontamination and disposal of potentially infected material.

REFERENCES

1. CLSI. Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria. M11. Edition 9th. 2018
2. CLSI. Performance Standards for Antimicrobial Susceptibility Testing; 29th ed. CLSI Supplement M100.Edition 30th. 2020.

PRESENTATION

Product	µg/mL	Packaging	Ref.
Blood AD Clindamycin	0.03-32	6 test	77062
Blood AD Clindamycin	0.03-32	1 test	77002

TABLE OF SYMBOLS

LOT	Batch code		Do not reuse		Manufacturer		Contains sufficient for <n> tests		Temperature limits
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents		

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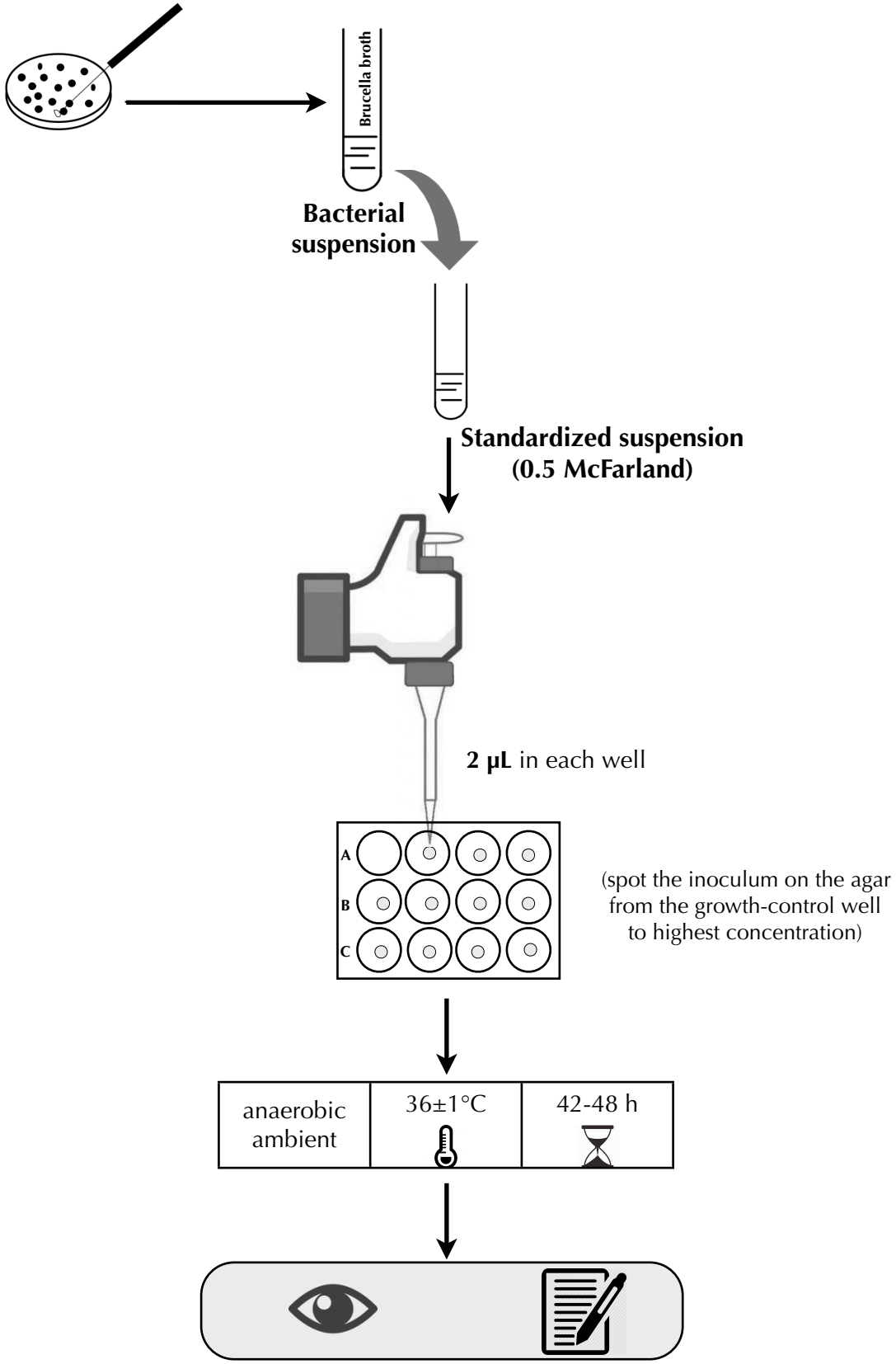
Appendix I

Blood AD Clindamycin Workflow



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