

**BDR007**

**Gram negative rings**

**SPECIFICATIONS:**

**COLOUR:** White ring having 12 discs of 6 mm diameter each with abbreviation in green

**DIRECTIONS:**

1. Prepare sterile plates of Mueller Hinton Agar (B263).
2. Prepare inoculum as per Bauer-Kirby Method-make a pure inoculum of culture. Inoculate pure single colony of test organism – *E. coli* (ATCC 25922), *S. aureus* (25923) and *P. aeruginosa* (27853), in 5ml Pre tested sterile SCDM (B040) in a test tube & incubate at 36 to 37°C for 2 hours. Compare the inoculum turbidity with that of standard 0.5McFARLAND STANDARD (BA 132).
3. Dip a sterile swab into the standardized inoculum and press against the wall of the test tube to remove excess liquid.
4. Swab the plates by rotating in all directions till the plate becomes dry.
5. Place the antimicrobial ring on the swabbed plates aseptically with the help of alcohol dipped flame sterilized forceps. Press the ring properly on the plates.
6. Incubate the plates at 36°C - 37°C for 18- 24 hours.
7. Measure the zones showing complete inhibition and record the diameters of the zones to the nearest millimetre using a calibrated instrument like zone scales.

**RESULTS:** Average diameter of zone of inhibition is observed on Mueller Hinton Agar (B263) after 18-24 hours incubation at 36°C -37°C for standard cultures.

Antimicrobial agent, micro-organism with ATCC number	Diameter of zone of inhibition			Quality control limit in mm
	Interpretative criteria			
	Sensitive mm or more	Intermediate mm	Resistant mm or less	
Amoxycillin-clavulanate 30mcg AUG				
EC (ATCC 25922)	18	14-17	13	18-24
SA (ATCC 25923)	20	--	19	28-36
PS (ATCC 27853)	--	--	--	--
Cefotaxime 25 mcg				
CTX EC (ATCC 25922)	--	--	--	--
SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	--
Imipenem/cilastatin 10/10mcg IMP				
EC (ATCC 25922)	--	--	--	28-35
SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	24-31
Ofloxacin 5mcg OFX				
EC (ATCC 25922)	16	13-15	12	29-33
SA (ATCC 25923)	18	15-17	14	24-28
PS (ATCC 27853)	16	13-15	12	17-21
Gentamycin 10 mcg GN				
EC (ATCC 25922)	15	13-14	12	19-26
SA (ATCC 25923)	15	13-14	12	19-27
PS (ATCC 27853)	15	13-14	12	16-21
Nalidixic acid 30mcg NA				
EC (ATCC 25922)	19	14-18	13	22-28
SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	--

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Nitrofurantoin 300mcg NF EC (ATCC 25922) SA (ATCC 25923) PS (ATCC 27853)	17 17 --	15-16 15-16 --	14 14 --	20-25 18-22 --
Cefuroxime 30mcg CXM EC (ATCC 25922) SA (ATCC 25923) PS (ATCC 27853)	18 18 --	15-17 15-17 --	14 14 --	20-26 27-35 --
Ceftriaxone-sulbactam 45mcg CRO EC (ATCC 25922) SA (ATCC 25923) PS (ATCC 27853)	-- -- --	-- -- --	-- -- --	-- -- --
Ampiclox 10mcg ACX EC (ATCC 25922) SA (ATCC 25923) PS (ATCC 27853)	-- -- --	-- -- --	-- -- --	16-22 35-37 --
Cefixime 5 mcg ZEM EC (ATCC 25922) SA (ATCC 25923) PS (ATCC 27853)	19 -- --	16-18 -- --	15 -- --	23-27 -- --
Levofloxacin 5 mcg LBC EC (ATCC 25922) SA (ATCC 25923) PS (ATCC 27853)	17 19 17	14-16 16-18 14-16	13 15 13	29-37 25-30 19-26

**USE:** It is used for antimicrobial sensitivity for relevant test organisms for laboratory diagnosis.

**Precautions:** For Laboratory Use.

**Storage:** -20 to 8°C

**Packing:** 50 Rings Pack

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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