

**BDR 003**

**Gram Negative ring with 12 antimicrobial discs.**

**SPECIFICATIONS:**

**COLOUR:** White to off white ring having 12 discs of 6 mm diameter each with abbreviation.

**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 ps.aeruginosa (27953), 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 forcep. Press the ring properly on the plates.
6. Incubate the plates at 35 C - 37°C for 18- 24 hours.
- 7 Measure the zones showing complete inhibition and record the diameters of the zones to the nearest millimeter using a calibrated instrument like zone scales.(BL/AS/01)

**RESULTS:**

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

Name of antibiotic and organism with ATCC	Resistant Less than or =	Intermediate	Sensitive More than or =
Ampicillin (10mcg) AMP			
EC (ATCC 25922)	13	14-16	17
SA (ATCC 25923)	28	--	29
PS (ATCC 27853)	--	--	--
Tetracyclin (10mcg) TET			
EC (ATCC 25922)	--	18-25	--
SA (ATCC 25923)	--	24-30	--
PS (ATCC 27853)	--	--	--
cotrimaxazole (25mcg) COT			
EC (ATCC 25922)	10	11-15	16
SA (ATCC 25923)	10	11-15	16
PS (ATCC 27853)	--	--	--

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gentamycin (10mcg) GEN			
EC (ATCC 25922)	12	13-14	15
SA (ATCC 25923)	12	13-14	15
PS (ATCC 27853)	12	13-14	15
Cefuroxime(30mcg) CRX			
EC (ATCC 25922)	14	15-17	18
SA (ATCC 25923)	14	15-17	18
PS (ATCC 27853)	--	--	--
Chloramphenicol (10mcg) CHL			
EC (ATCC 25922)	--	17-25	--
SA (ATCC 25923)	--	19-26	--
PS (ATCC 27853)	--	--	--
Ceftriaxone (30mcg) CTR			
EC (ATCC 25922)	19	20-22	23
SA (ATCC 25923)	13	14-20	21
PS (ATCC 27853)	13	14-20	21
Cefotaxime (30mcg) CTR			
EC (ATCC 25922)	22	23-25	26
SA (ATCC 25923)	14	15-22	23
PS (ATCC 27853)	14	15-22	23
ciprofloxacin (5mcg) CIP			
EC (ATCC 25922)	15	16-20	21
SA (ATCC 25923)	15	16-20	21
PS (ATCC 27853)	15	16-20	21
Vancomycin (30mcg) VAN			
EC (ATCC 25922)	--	--	--
SA (ATCC 25923)	14	15-16	17
PS (ATCC 27853)	--	--	--
Amikacin (30mcg) AMK			
EC (ATCC 25922)	14	15-16	17
SA (ATCC 25923)	14	15-16	17
PS (ATCC 27853)	14	15-16	17
Meropenem (10mcg) MEM			
EC (ATCC 25922)	19	20-22	23
SA (ATCC 25923)	13	14-15	16
PS (ATCC 27853)	15	16-18	19

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

**Precautions :**For Laboratory Use.

**Storage:** Below 8°C (preferably at -20°C)

**Packing:** 50 Rings/100 Rings Pack.

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