

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BDR001		<u>UTI disc ring</u>		
SPECIFICATIONS:				
COLOUR: White ring having 12 discs of 6 mm diameter each with abbreviation printed in blue colour.				
DIRECTIONS:				
<ol style="list-style-type: none"> 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 (ATCC 25923) and P. aeruginosa (ATCC 27853) in 5ml Pre tested sterile SCDM (B040) in a test tube & incubate at 36-37°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 36-37°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 36-37°C for standard cultures.				
Antimicrobial agent, micro-organism with ATCC number	Diameter of zone of inhibition			
	Interpretative criteria			Quality control limit in mm
	Sensitive	Intermediate	Resistant	
mm or more	mm	mm or less		
Augmentin / amoxyclave (30mcg) AU				
EC (ATCC 25922)	18	14-17	13	18-24
SA (ATCC 25923)	20	--	19	28-36
PS (ATCC 27853)	--	--	--	--
Ciprofloxacin (5mcg) CIP				
EC (ATCC 25922)	21	16-20	15	30-40
SA (ATCC 25923)	21	16-20	15	22-30
PS (ATCC 27853)	21	16-20	15	25-33
Ceftriaxone(30mcg) CEF				
EC (ATCC 25922)		20-22	19	29-35
SA (ATCC 25923)	23	14-20	13	22-28
PS (ATCC 27853)	21	14-20	13	17-23
	21			
Gentamicin (10mcg) GEN				
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
Piperacillin (20mcg) PIP				
EC (ATCC 25922)	--	--	--	--
SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	--
Nitrofurantoin (300 mcg) NIT				
EC (ATCC 25922)	17	15-16	14	20-25
SA (ATCC 25923)	17	15-16	14	18-22
PS (ATCC 27853)	--	--	--	--
Nalidixic acid (30mcg) NAL				
EC (ATCC 25922)	19	14-18	13	22-28

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SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	--
Ceftazidime (20mcg) CFT				
EC (ATCC 25922)	--	--	--	--
SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	--
Norfloxacin (20mcg) NOR				
EC (ATCC 25922)	--	--	--	--
SA (ATCC 25923)	--	--	--	--
PS (ATCC 27853)	--	--	--	--
Tetracyclin (30mcg) TET				
EC (ATCC 25922)	15	12-14	11	18-25
SA (ATCC 25923)	19	15-18	14	24-30
PS (ATCC 27853)	--	--	--	--
Amikacin (30mcg) AMK				
EC (ATCC 25922)	17	15-16	14	19-26
SA (ATCC 25923)	17	15-16	14	20-26
PS (ATCC 27853)	17	15-16	14	18-26
Levofloxacin (5mcg) LEV				
EC (ATCC 25922)	17	14-16	13	29-37
SA (ATCC 25923)	19	16-18	15	25-30
PS (ATCC 27853)	17	14-16	13	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/100 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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