



Zone Size Interpretative Chart

(Based on Results obtained using Mueller Hinton Agar)



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Product Code	Antimicrobial Agent	Symbol	Disc content	Interpretative Criteria			Quality Control Limits (mm)												
				Sensitive mm or more	Intermediate mm	Resistant mm or less	<i>E. coli</i> ATCC 25922	<i>S. aureus</i> ATCC 25923	<i>P. aeruginosa</i> ATCC 27853	<i>E. coli</i> ATCC 35218	<i>S. aureus</i> ATCC 29213	<i>E. faecalis</i> ATCC 29212	<i>H. influenzae</i> ATCC 49247	<i>H. influenzae</i> ATCC 49766	<i>H. influenzae</i> NGTC 8468	<i>N. gonorrhoeae</i> ATCC 49226	<i>S. pneumoniae</i> ATCC 49619	<i>C. jejuni</i> ATCC 33560	
SD035	Amikacin <i>Enterobacteriaceae, P. aeruginosa, Acinetobacter & Staphylococcus Enterobacteriaceae</i> <i>Acinetobacter spp., Pseudomonas spp. Staphylococcus spp.</i> <i>Coagulase negative staphylococci</i>	AK	30 mcg	17 16 18 18 22	15-16 14-15 16-17 17 20-21	14 13 15 16 19	19-26 19-26	20-26	18-26	-	-	-	-	-	-	-	-	-	-
SD063	Amoxyclav (Amoxicillin/Clavulanic acid) <i>Enterobacteriaceae</i> <i>Staphylococcus</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>Enterobacteriaceae</i> <i>Enterobacteriaceae</i> (uncomplicated UTI only)	AMC	30 mcg (20/10) mcg	18 20 20 19 16	14-17 - - - -	13 19 19 19 16	18-24 - - 18-24 -	-	28-36	-	17-22	-	-	15-23	-	-	-	-	-
SD002	Ampicillin <i>Enterobacteriaceae</i> <i>Staphylococcus</i> <i>Enterococcus</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>Streptococcus spp. beta haemolytic group</i> <i>Enterobacteriaceae</i>	AMP	10 mcg	17 29 17 22 24 14	14-16 - - 19-21 - -	13 28 16 18 - 14	16-22 - - - - 16-22	-	27-35	-	6	-	-	13-21	-	-	-	30-36	-
SD002A	Ampicillin <i>Staphylococcus saprophyticus</i> <i>Enterococcus spp.</i> <i>Streptococcus spp. viridans group</i> <i>Haemophilus influenzae, Listeria monocytogens</i> <i>Pasteurella multocida</i>	AMP	2 mcg	18 10 21 16 17	- 9 16-20 - -	18 8 15 16 17	- - - - -	-	-	-	15-21	-	15-21	-	-	19-25	-	25-31	-
SD112	Ampicillin/Sulbactam <i>Enterobacteriaceae, Acinetobacter &</i>	A/S	10/10mcg																
SD112	Ampicillin/Sulbactam <i>Enterobacteriaceae, Acinetobacter & Staphylococcus</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>Enterobacteriaceae</i>	A/S	10/10mcg	15 20 14	12-14 - -	11 19 14	19-24 - 19-24	29-37	-	13-19	-	-	14-22	-	-	-	-	-	-
SD204	Azithromycin <i>Staphylococcus, S. pneumoniae, Streptococcus spp. Viridians group & Streptococcus spp. beta haemolytic group</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>Neisseria meningitidis</i>	AZM	15 mcg	18 12 20	14-17 - -	13 - -	-	21-26	-	-	-	-	13-21	-	-	-	-	19-25	-
SD064	Azlocilin <i>Enterobacteriaceae</i>	AZ	75 mcg	18	-	17	-	-	24-30	-	-	-	-	-	-	-	-	-	-
SD212	Aztreonam <i>Enterobacteriaceae</i> <i>P. aeruginosa</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>Enterobacteriaceae</i> <i>Pseudomonas spp.</i>	AT	30 mcg	21 22 26 24 50	18-20 16-21 - 22-23 17-49	17 15 - 21 16	28-36 - - 28-36 -	-	23-29	-	-	-	30-38	-	-	-	-	-	-
*SD003	Bacitracin	B	10 units	8	9-12	13	-	12-22	-	-	-	-	-	-	-	-	-	-	-
SD004	Carbenicillin <i>Enterobacteriaceae</i> <i>Paeruginosa</i>	CB	100 mcg	23 17	20-22 14-16	19 13	23-29	-	-	18-24	-	-	-	-	-	-	-	-	-
SD157	Cefaclor <i>Enterobacteriaceae, Staphylococcus</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>S. pneumoniae</i>	CF	30 mcg	18 20 50	15-17 17-19 29-49	14 16 28	23-27 - -	27-31	-	-	-	-	-	25-31	-	24-30	-	24-32	-
SD116	Cefadroxil <i>Enterobacteriaceae</i>	CFR	30 mcg	12	-	12	14-20	-	-	-	-	-	-	-	-	-	-	-	-
SD048	Cefalexin <i>Enterobacteriaceae</i>	CN	30 mcg	14	-	14	15-21	-	-	-	-	-	-	-	-	-	-	-	-
SD200	Cefamandole <i>Enterobacteriaceae, Staphylococcus</i>	FAM	30 mcg	18	15-17	14	26-32	26-34	-	-	-	-	-	-	-	-	-	-	-
SD047	Cefazolin <i>Enterobacteriaceae</i> <i>Staphylococcus</i>	CZ	30 mcg	23 18	20-22 15-17	19 14	21-27 29-35	-	-	-	-	-	-	-	-	-	-	-	-
SD218	Cefdinir <i>Enterobacteriaceae, Staphylococcus</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i>	CDR	5 mcg	20 20	17-19 -	16 -	24-28 -	25-32	-	-	-	-	-	40-49	-	-	-	26-31	-



▼ : In accordance to Performance Standards for Antimicrobial Disk Susceptibility Tests, CLSI (formerly NCCLS) & EUCAST.

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Δ : For *E. coli, S. aureus, P. aeruginosa* : Mueller Hinton Agar (MHA). For *Haemophilus spp.* : Haemophilus Test Medium;

For *S. pneumoniae* : Mueller Hinton Agar with 5% sheep blood; For *N. gonorrhoeae* : GC Agar Base with 1% defined growth supplement.

References: 1. Bauer, Kirby, Sherris and Turk, 1968, Am. J. Clin. Path., 45: 493 2. Performance Standards for Antimicrobial Disk Susceptibility Tests, M100-S23, CLSI Vol. 33

No. 1, Jan. 2013. For more details refer to this volume. 3. EUCAST, Breakpoint tables for interpretation of MICs & zone diameters, version 4.0, valid from 01.01.2014.



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Product Code	Antimicrobial Agent	Sym- bol	Disc content	Interpretative Criteria			Quality Control Limits (mm)											
				Sen- sitive mm or more	Inter- mediate mm	Resi- stant mm or less	E. coli ATCC 25922	S. aureus ATCC 25923	P. aeruginosa ATCC 27853	E. coli ATCC 35218	S. aureus ATCC 29213	E. faecalis ATCC 29212	H. influenzae ATCC 49247	H. influenzae ATCC 49766	H. influenzae NCTC 8468	N. gonorrhoeae ATCC 49226	S. pneumoniae ATCC 49619	C. jejuni ATCC 33560
SD110	Ceftizoxime Enterobacteriaceae P. aeruginosa & Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Neisseria gonorrhoeae	CZX	30 mcg	25 20 26 38	22-24 15-19	14 14	30-36 27-35	- 12-17	- -	- -	- -	- -	- -	- -	- -	28-34 -	- -	
SD065	Ceftriaxone Enterobacteriaceae P.aeruginosa, Acientobacter & Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Neisseria meningitidis Neisseria gonorrhoeae Streptococcus spp. Viridians group Streptococcus spp. beta haemolytic group Enterobacteriaceae Streptococcus spp viridans group Haemophilus influenzae Moraxella catarrhalis	CTR	30 mcg	23 21 26 34 35 27 24 23 27 30 24	20-22 14-20	19 13	29-35 -	- 22-28 17-23	- -	- -	- -	31-39 -	- -	- -	39-51 -	30-35 -	- -	
SD061	Cefuroxime Enterobacteriaceae & Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Neisseria gonorrhoeae Enterobacteriaceae Streptococcus spp. viridans group Haemophilus influenzae (IV) Haemophilus influenzae (Oral) Moraxella catarrhalis (IV) Moraxella catarrhalis (Oral)	CXM	30 mcg	18 20 31 18 26 26 50 18 50	15-17 17-19 26-30	14 16 25	20-26 27-35	- -	- -	- -	- -	28-36 -	- -	33-41 -	- -	28-34 -	- -	
SD050	Cephalothin Enterobacteriaceae & Staphylococcus	CEP	30 mcg	18	15-17	14	15-21	29-37	-	-	-	-	-	-	-	26-32	-	
SD066	Chloramphenicol Enterobacteriaceae, Staphylococcus & Enterococcus Haemophilus influenzae & Haemophilus parainfluenzae Neisseria meningitidis S. pneumoniae Streptococcus spp. Viridians group, Streptococcus spp. beta haemolytic group Enterobacteriaceae Staphylococcus spp. Streptococcus group A, B, C & G S. pneumoniae Haemophilus influenzae Moraxella catarrhalis	C	30 mcg	18 29 26 21 21 17 18 19 21 28 30	13-17 26-28 20-25	12 25 19 20 17 17 18 19 21 28 30	21-27 19-26	- -	- -	- -	31-40 -	- -	- -	- -	- -	23-27 -	24-30 -	- -
SD245	Cinoxacin Enterobacteriaceae	CIN	100 mcg	19	15-18	14	26-32	-	-	-	-	-	-	-	-	-	-	
SD060	Ciprofloxacin Enterobacteriaceae other than S. Typhi & extraintestinal Salmonella spp., P. aeruginosa, Acientobacter, Staphylococcus & Enterococcus For S. Typhi and extraintestinal Salmonella spp. Haemophilus influenzae & Haemophilus parainfluenzae Neisseria meningitidis Neisseria gonorrhoeae Enterobacteriaceae Staphylococcus spp. Pseudomonas spp. Acinetobacter spp. S. pneumoniae Haemophilus influenzae, Campylobacter Moraxella catarrhalis Pasteurella multocida Corynebacterium spp.	CIP	5 mcg	21 31 21 35 41 22 25 21 50 26 23 27 25	16-20 21-30	15 20	30-40 22-30 25-33	- -	- -	- -	- -	34-42 -	- -	48-58 -	- -	22-28 -	34-42 -	- -
SD192	Clarithromycin Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae S. pneumoniae, Streptococcus spp. Viridians group, Streptococcus spp. beta haemolytic group	CLR	15 mcg	18 13 21	14-17 11-12 17-20	13 10 18	26-32	- -	- -	- -	- -	11-17 -	- -	- -	- -	25-31	- -	
SD051	Clindamycin Staphylococcus S. pneumoniae, Streptococcus spp. Viridians group, Streptococcus spp. beta haemolytic group Staphylococcus spp. Streptococcus spp viridans group, S. pneumoniae Streptococcus group A, B, C & G Corynebacterium spp.	CD	2 mcg	21 19 22 19 17 20	15-20 16-18 20-21	14 15 19	24-30	- -	- -	- -	- -	- -	- -	- -	- -	19-25 -	- -	



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For S. pneumoniae : Mueller Hinton Agar with 5% sheep blood; For N. gonorrhoeae : GC Agar Base with 1% defined growth supplement.

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				Sen- sive	Inter- mediate	Resi- tant	E. coli ATCC 25922	S. aureus ATCC 25923	P. aeruginosa ATCC 27853	E. coli ATCC 35218	S. aureus ATCC 29213	E. faecalis ATCC 29212	H. influenzae ATCC 49247	H. influenzae ATCC 49766	H. influenzae NCTC 8468	N. gonorrhoeae ATCC 49226	S. pneumoniae ATCC 49619	C. jejuni ATCC 33560
				mm or more	mm	mm or less												
SD016	Gentamicin Enterobacteriaceae, P. aeruginosa, Acinetobacter & Staphylococcus Enterobacteriaceae Staphylococcus spp. Coagulase negative Staphylococci Pseudomonas spp. Acinetobacter spp. Corynebacterium spp.	GEN	10 mcg	15 17 18 22 15 17 23	13-14 15-16 14 22 15 17 23	12 14 18 22 15 17 23	19-26 19-26 - - - - -	19-27 - - - - - -	17-23 - - - 17-23 - -	- - - - - - -	- - - 19-25 - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	
SD170	Gentamicin Enterococcus spp.	GEN	30 mcg	-	-	-	-	-	-	-	12-18	-	-	-	-	-	-	-
SD073	Imipenem Enterobacteriaceae P. aeruginosa Acinetobacter, Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Enterobacteriaceae Pseudomonas spp. Acinetobacter spp. Enterococcus spp. Haemophilus influenzae Moraxella catarrhalis	IPM	10 mcg	23 19 16 16 22 20 23 21 20 29	20-22 16-18 14-15 - 17-21 18-19 18-22 19-20 - -	19 15 13 - 16 17 17 18 20 29	26-32 - - - 26-32 - - - - - -	- - - - - 20-28 - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	21-29 - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	
SD017	Kanamycin Enterobacteriaceae, Staphylococcus	K	30 mcg	18	14-17	13	17-25	19-26	-	-	-	-	-	-	-	-	-	-
SD216	Levofloxacin Enterobacteriaceae, S. Typhi, P. aeruginosa, Acinetobacter, S. maltophilia, Enterococcus, S. pneumoniae, Streptococcus spp. Viridians group, Streptococcus spp. beta haemolytic group Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Enterobacteriaceae, Staphylococcus spp Pseudomonas spp. Acinetobacter spp. Streptococcus group A, B, C & G S.pneumoniae Haemophilus influenzae Moraxella catarrhalis Pasteurella multocida	LE	5 mcg	17 19 17 22 20 21 18 17 26 23 27	14-16 16-18 - 20-21 18-19 19-20 16-17 - - - -	13 15 - - 17 17 26 23 27	29-37 - 29-37 - - - - - - - -	- 25-30 - - - - - - - - -	19-26 - - - 19-26 - - - - - -	- - - - - - - - - -	- - - - - - - - - -	32-40 - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	20-25 - - - - - - - - -	- - - - - - - - - -	
SD215	Linezolid Staphylococcus Enterococcus S. pneumoniae, Streptococcus spp. Viridians group, Streptococcus spp. beta haemolytic group	LZ	15 mcg	21 23 21	- 21-22 -	20 20 -	- - -	25-32 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
SD206	Lomefloxacin Enterobacteriaceae, P. aeruginosa & Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Neisseria gonorrhoeae	LOM	10 mcg	22 22 38	19-21 - 27-37	18 - 26	27-33 - -	23-29 - -	22-28 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
SD176	Mecillinam Enterobacteriaceae Enterobacteriaceae	MEC	10 mcg	15 15	12-14 -	11 15	24-30 24-30	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
SD727	Meropenem Enterobacteriaceae P. aeruginosa	MRP	10 mcg	23 19 16 20	20-22 16-18 14-15 16-19	19 15 13 15	28-34 - - -	- - 29-37 -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
SD727	Meropenem Enterobacteriaceae P. aeruginosa Acinetobacter & Staphylococcus B. cepacia Haemophilus influenzae & Haemophilus parainfluenzae Neisseria meningitidis Enterobacteriaceae Pseudomonas spp. Acinetobacter spp. Haemophilus influenzae Moraxella catarrhalis Listeria monocytogens	MRP	10 mcg	23 19 16 20 30 22 24 21 20 33 26	20-22 16-18 14-15 16-19 - 17-21 19-23 16-20 - - -	19 15 13 15 - 16 18 15 - 33 26	28-34 - - - - 28-34 - - - - - -	- - 29-37 - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	20-28 - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	
SD019	Methicillin Staphylococcus	MET	5 mcg	14	10-13	9	-	17-22	-	-	-	-	-	-	-	-	-	-
SD225	Mezlocillin Enterobacteriaceae, Acinetobacter P. aeruginosa	MZ	75 mcg	21 16	18-20 -	17 15	23-29 -	- 19-25	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
SD158	Minocycline Enterobacteriaceae, Acinetobacter B. cepacia, S. maltophilia, Staphylococcus & Enterococcus Neisseria meningitidis Staphylococcus spp., Streptococcus group A, B, C & G S.pneumoniae Haemophilus influenzae Moraxella catarrhalis	MI	30 mcg	16 19 26 - 23 24 24 25	13-15 15-18 - - 21-22 22-23 22-23 23-24	12 14 - - 20 21 21 22	19-25 - - - - - - -	25-30 - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	



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				Sensitive	Intermediate	Resistant	E. coli ATCC 25922	S. aureus ATCC 25923	P. aeruginosa ATCC 27853	E. coli ATCC 35218	S. aureus ATCC 29213	E. faecalis ATCC 29212	H. influenzae ATCC 49247	H. influenzae ATCC 49766	H. influenzae NCTC 8468	N. gonorrhoeae ATCC 49226	S. pneumoniae ATCC 49619	C. jejuni ATCC 33560
				mm or more	mm	mm or less												
SD220	Moxalactam Enterobacteriaceae, P. aeruginosa & Staphylococcus	MX	30 mcg	23	15-22	14	28-35	18-24	17-25	-	-	-	-	-	-	-	-	-
SD217	Moxifloxacin Enterobacteriaceae Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae S. pneumoniae Enterobacteriaceae Staphylococcus spp. Streptococcus group A, B, C & G S. pneumoniae Haemophilus influenzae, Corynebacterium spp. Moraxella catarrhalis	MO	5 mcg	24	21-23	20	28-35	28-35	17-25	-	-	-	-	-	-	-	-	-
SD293E	Mupirocin Staphylococcus spp.	MUP	200 mcg	30	19-29	18	-	-	-	31-37	-	-	-	-	-	-	-	-
SD246	Nafcillin Staphylococcus	NAF	1 mcg	13	11-12	10	-	16-22	-	-	-	-	-	-	-	-	-	-
SD021	Nalidixic Acid Enterobacteriaceae Haemophilus influenzae, Moraxella catarrhalis, Pasteurella multocida	NA	30 mcg	19	14-18	13	22-28	-	-	-	-	-	-	-	-	-	-	-
SD046	Netilil (Netilmicin Sulphate) Enterobacteriaceae, P. aeruginosa, Staphylococcus	NET	30 mcg	15	13-14	12	22-30	22-31	17-23	-	-	-	-	-	-	-	-	-
SD085	Netilil (Netilmicin Sulphate) Enterobacteriaceae Staphylococcus spp. Coagulase negative Staphylococci Pseudomonas spp. Acinetobacter spp.	NET	10 mcg	15	13-14	12	18-24	-	-	-	20-26	-	-	-	-	-	-	-
SD023	Nitrofurantoin Enterobacteriaceae, Staphylococcus & Enterococcus	NIT	300 mcg	17	15-16	14	20-25	18-22	-	-	-	-	-	-	-	-	23-29	-
SD086	Nitrofurantoin Enterobacteriaceae Staphylococcus spp. Streptococcus group A, B, C & G, Enterococcus spp.	NIT	100 mcg	11	-	11	17-23	-	-	-	-	-	-	-	-	-	-	-
SD057	Norfloxacin Enterobacteriaceae, P. aeruginosa, Staphylococcus & Enterococcus Enterobacteriaceae Staphylococcus spp. Enterococcus spp. Streptococcus group A, B, C & G, S. pneumoniae	NX	10 mcg	17	13-16	12	28-35	17-28	22-29	-	-	-	-	-	-	-	-	15-21
*SD053	Novobiocin	NV	30 mcg	17	18-21	22	-	22-31	-	-	-	-	-	-	-	-	-	-
SD087	Ofloxacin Enterobacteriaceae, P. aeruginosa, S. pneumoniae, Streptococcus spp. Viridians group, Streptococcus spp. beta haemolytic group Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae Neisseria gonorrhoeae Enterobacteriaceae Staphylococcus spp. S. pneumoniae Haemophilus influenzae Moraxella catarrhalis	OF	5 mcg	16	13-15	12	29-33	-	17-21	-	-	-	-	-	-	-	-	16-21
SD088	Oxacillin Staphylococcus S. pneumoniae S. pneumoniae	OX	1 mcg	20	-	-	-	18-24	-	-	-	-	-	-	-	-	-	<=12*
SD028	Penicillin-G Staphylococcus Enterococcus Neisseria gonorrhoeae Streptococcus spp. beta haemolytic group	P	10 units	29	-	28	-	26-37	-	-	-	-	-	-	-	-	-	-
SD089	Penicillin G Staphylococcus spp. Streptococcus group A, B, C & G Streptococcus spp. viridans group Haemophilus influenzae Listeria monocytogenes Pasteurella multocida Corynebacterium spp.	P	1 unit	26	-	26	-	-	-	-	12 - 18	-	-	-	-	-	-	16-22
SD066	Piperacillin Enterobacteriaceae & Acinetobacter P. aeruginosa	PI	100 mcg	21	18-20	17	24-30	-	-	12-18	-	-	-	-	-	-	-	-

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				Sen- sitive mm or more	Inter- mediate mm	Resi- stant mm or less	E. coli ATCC 25922	S. aureus ATCC 25923	P. aeruginosa ATCC 27853	E. coli ATCC 35218	S. aureus ATCC 29213	E. faecalis ATCC 29212	H. influenzae ATCC 49247	H. influenzae ATCC 49766	H. influenzae NCTC 8468	N. gonorrhoeae ATCC 49226	S. pneumoniae ATCC 49619	C. jejuni ATCC 33560
SD066A	Piperacillin Enterobacteriaceae Pseudomonas spp.	PI	30 mcg	20 19	18-19	17 19	21-27 -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	
SD210	Piperacillin/ Tazobactam Enterobacteriaceae & Acinetobacter P. aeruginosa Staphylococcus Haemophilus influenzae & Haemophilus parainfluenzae	PIT	100/ 10 mcg	21 21 18 21	18-20 15-20	17 14 17	24-30 - -	- -	25-33 -	24-30 -	- -	- -	- -	- -	- -	- -	- -	
SD292E	Piperacillin / Tazobactam Enterobacteriaceae Pseudomonas spp.	PTZ	30/6 mcg	20 19	18-19	17 19	21-27 -	- -	- 23-29	- -	- -	- -	- -	- -	- -	- -	- -	
SD029	Polymyxin-B Enterobacteriaceae P. aeruginosa	PB	300 Units	- 12	- -	- 11	13-19 -	- -	14-18 -	- -	- -	- -	- -	- -	- -	- -	- -	
SD178	Pristinomycin (Quinupristin/Dalfopristin) Staphylococcus, Enterococcus, S. pneumoniae, Streptococcus spp. beta haemolytic group & Streptococcus spp. Viridians group Staphylococcus spp. Enterococcus spp.	RP	15 mcg	19 21 22	16-18 19-20 21	15 18 20	- -	21-28 -	- -	- -	- 21-27	- -	15-21 -	- -	- -	- -	19-24 -	
SD030	Rifampicin Enterobacteriaceae Staphylococcus, Enterococcus, Haemophilus influenzae & Haemophilus parainfluenzae Neisseria meningitidis	RIF	5 mcg	- 20 25	- 17-19 20-24	- 16 19	8-10 -	- -	26-34 -	- -	- -	- -	- 22-30	- -	- -	- -	- -	
SD162	Sparfloxacin Enterobacteriaceae Staphylococcus, S. pneumoniae	SPX	5 mcg	- 19	- 16-18	- 15	30-38 -	- 27-33	21-29 -	- -	- -	- -	32-40 -	- -	43-51 -	- 21-27	- -	
SD181	Spectinomycin Neisseria gonorrhoeae	SPT	100 mcg	18	15-17	14	-	-	-	-	-	-	-	-	23-29	-	-	
SD236	Streptomycin Enterococcus	HLS	300 mcg	10	7-9	6	-	-	-	-	14-20	-	-	-	-	-	-	
SD031	Streptomycin Enterobacteriaceae	S	10 mcg	15	12-14	11	12-20	14-22	-	-	-	-	-	-	-	-	-	
SD032	Sulphafurazole (Sulfisoxazole) Enterobacteriaceae & Staphylococcus	SF	300 mcg	17	13-16	12	15-23	24-34	-	-	-	-	-	-	-	-	-	
SD213	Teicoplanin Staphylococcus & Enterococcus Enterococcus spp., Streptococcus spp. viridans group Streptococcus group A, B, C & G S.pneumoniae	TEI	30 mcg	14 16 15 17	11-13 -	10 16 15 17	- -	15-21 -	- -	- -	- -	- -	- -	- -	- -	- -	- 18-24	
SD291E	Telithromycin Staphylococcus spp. S.pneumoniae Haemophilus influenzae & Haemophilus parainfluenzae Streptococcus group A, B, C & G S.pneumoniae, Moraxella catarrhalis Haemophilus influenzae	TEL	15 mcg	22 19 15 20 23 50	19-21 16-18 12-14 18-19 21-22 13-49	18 15 11 17 20 12	- 24-30 -	- -	- -	- -	- -	- -	- 17-33	- -	- -	- -	- 27-33 -	
SD037	Tetracycline Enterobacteriaceae, Acinetobacter Staphylococcus, Enterococcus & Neisseria meningitidis Haemophilus influenzae & Haemophilus parainfluenzae Neisseria gonorrhoeae S. pneumoniae, Streptococcus spp. beta haemolytic group & Streptococcus spp. Viridians group Staphylococcus spp. Streptococcus group A, B, C & G S.pneumoniae, Haemophilus influenzae Corynebacterium spp., Pasteurella multocida Campylobacter jejuni	TE	30 mcg	15 19 29 38 28 22 23 25 24 30	12-14 15-18 26-28 31-37 25-27 20-21 21-22 23-24 -	11 14 25 30 24 19 20 22 -	18-25 -	- 24-30	- -	- -	- -	- -	14-22 -	- -	30-42 -	- -	27-31 -	
SD201	Ticarcillin / Clavulanic Acid Enterobacteriaceae & Acinetobacter P. aeruginosa Staphylococcus Enterobacteriaceae Pseudomonas spp.	TCC	75/10mcg	20 24 23 23 17	15-19 16-23	14 15 22 23 17	24-30 -	- 20-28 -	21-25 -	- -	- -	- -	- -	- -	- -	- -	- -	
SD074	Ticarcillin Enterobacteriaceae & Acinetobacter P. aeruginosa Enterobacteriaceae Pseudomonas spp.	TI	75 mcg	20 24 23 17	15-19 16-23	14 15 23 17	24-30 -	- 21-26 -	6 -	- -	- -	- -	- -	- -	- -	- -	- -	
SD278	Tigecycline Enterobacteriaceae, Enterococcus spp. Staphylococcus spp. Streptococcus group A, B, C & G	TGC	15 mcg	18 18 19	16-17 -	15 18 16	20-27 20-27	20-25 -	9-13 -	- -	- 19-25	- -	23-31 -	- -	- -	30-40 -	23-29 -	



■ : In accordance to Performance Standards for Antimicrobial Disk Susceptibility Tests, CLSI (formerly NCLC) & EUCAST.

■ : Zone size interpretative criteria given in Red colour is as per EUCAST standard.

* : Not included in CLSI chart; FDA approved performance standards for Antimicrobial Discs obtained from drug manufacturers.

△ : For E. coli, S. aureus, P. aeruginosa : Mueller Hinton Agar (MHA). For Haemophilus spp. : Haemophilus Test Medium;

For S. pneumoniae : Mueller Hinton Agar with 5% sheep blood; For N. gonorrhoeae : GC Agar Base with 1% defined growth supplement.

References: 1. Bauer, Kirby, Sherris and Turck, 1996, Am. J. Clin. Path., 45 : 493 2. Performance Standards for Antimicrobial Disk Susceptibility Tests, M100-S23, CLSI Vol. 33

No. 1, Jan. 2013. For more details refer to this volume. 3. EUCAST, Breakpoint tables for interpretation of MICs & zone diameters, version 4.0, valid from 01.01.2014.



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Product Code	Antimicrobial Agent	Symbol	Disc content	Interpretative Criteria			Quality Control Limits (mm)											
				Sensitive mm or more	Inter-mediate mm	Resistant mm or less	E. coli ATCC 25922	S. aureus ATCC 25923	P. aeruginosa ATCC 27853	E. coli ATCC 35218	S. aureus ATCC 29213	E. faecalis ATCC 29212	H. influenzae ATCC 49247	H. influenzae ATCC 49766	H. influenzae NCTC 8468	N. gonorrhoeae ATCC 49226	S. pneumoniae ATCC 49619	C. jejuni ATCC 33560
							15	12-14	11	18-25	-	-	-	-	-	-	-	-
SD037	Tetracycline <i>Enterobacteriaceae, Acinetobacter</i> <i>Staphylococcus, Enterococcus & Neisseria meningitidis</i> <i>Haemophilus influenzae & Haemophilus parainfluenzae</i> <i>Neisseria gonorrhoeae</i> <i>S. pneumoniae, Streptococcus spp. beta haemolytic group & Streptococcus spp. Viridians group</i> <i>Staphylococcus spp.</i> <i>Streptococcus group A, B, C & G</i> <i>S.pneumoniae, Haemophilus influenzae</i> <i>Corynebacterium spp.,</i> <i>Pasteurella multocida</i> <i>Campylobacter jejuni</i>	TE	30 mcg	15	12-14	11	18-25	-	-	-	-	-	-	-	-	-	-	-
SD201	Ticarcillin / Clavulanic Acid <i>Enterobacteriaceae & Acinetobacter</i> <i>P. aeruginosa</i> <i>Staphylococcus</i> <i>Enterobacteriaceae</i> <i>Pseudomonas spp.</i>	TCC	75/10mcg	20	15-19	14	24-30	-	-	21-25	-	-	-	-	-	-	-	-
SD074	Ticarcillin <i>Enterobacteriaceae & Acinetobacter</i> <i>P. aeruginosa</i> <i>Enterobacteriaceae</i> <i>Pseudomonas spp.</i>	TI	75 mcg	20	15-19	14	24-30	-	-	6	-	-	-	-	-	-	-	-
SD278	Tigecycline <i>Enterobacteriaceae, Enterococcus spp.</i> <i>Staphylococcus spp.</i> <i>Streptococcus group A, B, C & G</i>	TGC	15 mcg	-	-	-	20-27	20-25	9-13	-	-	-	23-31	-	-	30-40	23-29	-
SD044	Tobramycin <i>Enterobacteriaceae, P. aeruginosa, Acinetobacter & Staphylococcus</i> <i>Enterobacteriaceae</i> <i>Staphylococcus spp.</i> <i>Coagulase negative Staphylococci</i> <i>Pseudomonas spp.</i> <i>Acinetobacter spp.</i>	TOB	10 mcg	15	13-14	12	18-26	19-29	20-26	-	-	-	-	-	-	-	-	-
SD044	Tobramycin <i>Enterobacteriaceae, P. aeruginosa, Acinetobacter & Staphylococcus</i> <i>Enterobacteriaceae</i> <i>Staphylococcus spp.</i> <i>Coagulase negative Staphylococci</i> <i>Pseudomonas spp.</i> <i>Acinetobacter spp.</i>	TOB	10 mcg	15	13-14	12	18-26	19-29	20-26	-	-	-	-	-	-	-	-	-
SD039	Trimethoprim <i>Enterobacteriaceae, Staphylococcus</i> <i>Enterobacteriaceae</i> <i>Staphylococcus spp.</i> <i>Enterococcus spp.</i>	TR	5 mcg	16	11-15	10	21-28	19-26	-	-	-	-	-	-	-	-	-	-
SD268	Ulifloxacin (Prulifloxacin)	PRU	5 mcg	-	-	-	32-38	20-26	27-33	-	-	-	-	-	-	-	-	-
SD045	Vancomycin <i>Enterococcus</i> <i>S. pneumoniae, Streptococcus spp. beta haemolytic group & Streptococcus spp. Viridians group</i>	VA	30 mcg	-	-	-	-	17-21	-	-	-	-	-	-	-	-	-	-
SD155	Vancomycin <i>Enterococcus spp.</i> <i>Streptococcus group A, B, C & G</i> <i>S.pneumoniae</i> <i>Streptococcus spp. viridans group</i> <i>Corynebacterium spp.</i>	VA	5 mcg	12	-	12	-	-	-	-	10 - 16	-	-	-	-	-	-	-

Zone size interpretative chart for Antifungal agent

(Based on results obtained on Mueller Hinton Agar + 2% Glucose + 0.5mcg/ml Methylene Blue Dye Medium)

Code	Antifungal agent	Symbol	Disc content	Zone diameter, Nearest Whole (mm)			Quality Control Limits			
				Resistant mm or less	S-DD*	S mm or more	C. albicans ATCC 90028	C. parapsilosis ATCC 22019	C. tropicalis ATCC 750	C. krusei ATCC 6258
SD232	Fluconazole	FLC	25 mcg	14	15-18	19	28-39	22-33	26-37	—
SD277	Voriconazole	VRC	1 mcg	13	14-16	17	31-42	28-37	—	16-25

* S-DD - Susceptible - Dose Dependent

References: 1) Method for Antifungal Disk Diffusion Susceptibility Testing of Yeasts; Approved Guidelines - Second Edition Vol.29 No.17, Aug - 2009 CLSI document M44-A2.

For more details refer to this volume.

2) Zone Diameter Interpretive Standards, Corresponding Minimal Inhibitory Concentration (MIC) Interpretive Breakpoints, and Quality Control Limits for Antifungal Disk Diffusion Susceptibility Testing of Yeasts, Third Informational Supplement CLSI document – M44-S3 – Aug 2009.

Product Code	Antimicrobial Agent	Sym- bol	Disc content	Diameter of zone of inhibition in mm		
				*Quality Control Limits		
				<i>E. coli</i> ATCC 25922	<i>S. aureus</i> ATCC 25923	<i>P. aeruginosa</i> ATCC 27853
SD082	Amikacin	AK	10 mcg	16-23	18-24	15-23
SD001	Amoxicillin	AMX	10 mcg	19-25	28-36	—
SD129	Amoxicillin	AMX	25 mcg	19-25	28-36	—
SD076	Amoxicillin	AMX	30 mcg	19-25	28-36	—
SD281	Amoxycylav (Amoxicillin/ Clavulanic acid)	AMC	50/10 mcg	24-30	30-38	—
SD264	Amoxicillin/Sulbactam	AMS	30/15 mcg	28-38	32-43	—
SD078	Amoxycylav	AMC	10 mcg	19-25	28-36	—
SD002A	Ampicillin	AMP	2 mcg	14-21	27-35	—
SD077	Ampicillin	AMP	25 mcg	20-30	32-40	—
SD113	Ampicillin/Cloxacillin	AX	10 mcg	16-22	35-37	—
SD124	Azithromycin	AZM	30 mcg	—	24-30	—
SD094	Azlocillin	AZ	30 mcg	—	—	22-28
SD263	Aztreonam	AT	50 mcg	29-37	—	24-33
SD003	Bacitracin	B	10 units	—	12-22	—
SD105	Bacitracin	B	8 units	—	12-22	—
SD116	Cefadroxil (Cephadroxil) Cefadroxil (Cephadroxil)	CFR CFR	30 mcg 30 mcg	12-18 14-20	26-32 —	— —
SD048	Cefalexin (Cephalexin) Cefalexin (Cephalexin)	CN CN	30 mcg 30 mcg	17-22 15-21	29-37 —	— —
SD079	Cefaloridine (Cephaloridine)	CR	10 mcg	17-21	29-37	—
SD005	Cefaloridine (Cephaloridine)	CR	30 mcg	17-21	29-37	—
SD262	Cefepime	CPM	50 mcg	32-40	26-34	27-35
SD234	Cefepime/Clavulanic acid	CFC	30/10 mcg	32-40	24-30	25-31
SD247	Cefepime/Tazobactam	CPT	80/10 mcg	31-39	30-35	27-34
SD257	Cefepime/Tazobactam	CPT	30/10 mcg	33-39	24-30	26-32
SD820	Cefixime	CFM	10 mcg	24-29	—	—
SD266	Cefixime/Clavulanic acid	CMC	5/10 mcg	24-32	—	—
SD203	Cefoperazone/Sulbactam	CFS	75/30 mcg	27-33	23-30	22-28
SD254	Cefoperazone/Sulbactam	CFS	75/10 mcg	27-33	23-30	20-25
SD259	Cefoperazone/Sulbactam	CFS	50/50 mcg	28-36	24-33	22-29
SD253	Cefoperazone/Tazobactam	CST	75/10 mcg	27-32	23-30	22-28
SD040A	Cefotaxime (Cephotaxime)	CTX	10 mcg	29-35	25-31	18-22
SD285	Cefoxitin/Cloxacillin	CXX	30/200 mcg	26-34	36-50	—
SD724	Cefotaxime/Clavulanic acid	CEC	30/10 mcg	30-37	29-36	—
SD738	Cefpirome	CFP	30 mcg	28-34	29-37	23-29
SD235	Cefpirome/Clavulanic acid	CPC	30/7.5 mcg	29-35	29-37	17-23
SD160	Cefradine (Cephadrine)	CH	25 mcg	17-22	29-37	—
SD704	Cefradine (Cephadrine)	CH	30 mcg	17-22	29-37	—
SD062A	Ceftazidime Ceftazidime	CAZ CAZ	10 mcg 10 mcg	25-32 23-29	16-20 —	22-29 21-27
SD207	Ceftazidime/Clavulanic acid	CAC	30/10 mcg	27-34 <i>K. pneumoniae</i> ATCC 700603 = ≥ 23 mm		
SD269	Ceftazidime/Tazobactam	GAT	80/10 mcg	25-32	19-28	23-30
SD252	Ceftazidime/Tazobactam	GAT	30/10 mcg	25-32	17-24	22-29
SD109	Ceftriaxone	CTR	10 mcg	29-35	22-28	17-23
SD261	Ceftriaxone/Sulbactam	CIS	30/15 mcg	31-37	24-30	16-21
SD256	Ceftriaxone/Tazobactam	CIT	30/10 mcg	29-35	24-32	17-24
SD251	Ceftriaxone/Tazobactam	CIT	80/10 mcg	29-35	24-32	17-24
SD081	Chloramphenicol	C	10 mcg	17-25	19-26	—
SD131	Chloramphenicol	C	50 mcg	23-29	25-32	—
SD153	Chloramphenicol	C	25 mcg	21-27	23-30	—
SD007	Chlortetracycline	CT	30 mcg	18-25	19-28	—
SD080	Ciprofloxacin	CIP	10 mcg	30-40	27-35	28-35
SD142	Ciprofloxacin	CIP	30 mcg	30-40	27-35	28-35
SD060A	Ciprofloxacin	CIP	1 mcg	26-36	20-28	22-30
SD164	Clindamycin	CD	10 mcg	—	28-34	—
SD008	Cloxacillin	COX	1 mcg	—	18-24	—

Product Code	Antimicrobial Agent	Sym- bol	Disc content	Diameter of zone of inhibition in mm		
				*Quality Control Limits		
				<i>E. coli</i> ATCC 25922	<i>S. aureus</i> ATCC 25923	<i>P. aeruginosa</i> ATCC 27853
SD075	Cloxacillin	COX	5 mcg	—	18-30	—
SD143	Cloxacillin	COX	10 mcg	—	23-34	—
SD165	Cloxacillin	COX	30 mcg	—	30-40	—
SD284	Cloxacillin	COX	200 mcg	—	36-50	—
SD108	Colistin (Methane Sulphonate)	CL	25 mcg	11-15	—	11-15
SD097	Colistin (Methane Sulphonate)	CL	50 mcg	11-15	—	11-15
SD071	Co-Trimazine (Human)	CM	25 mcg	21-28	19-26	—
SD052	Dicloxacillin	D/C	1 mcg	-	18-30	-
SD120	Doxycycline Hydrochloride	DO	10 mcg	12-18	23-29	—
SD150	Enrofloxacin	EX	10 mcg	30-40	22-30	—
SD156	Enrofloxacin	EX	5 mcg	30-40	22-30	—
SD083	Erythromycin	E	10 mcg	—	22-30	—
SD222	Erythromycin	E	5 mcg	—	22-30	—
SD140	Floxidin	FL	20 mcg	30-40	25-30	—
SD141	Floxidin	FL	30 mcg	30-40	25-30	—
SD179	Fosfomycin	FO	50 mcg	19-25	25-33	—
SD014	Framycetin	F	100 mcg	18-24	18-24	16-21
SD015	Furazolidone	FR	50 mcg	20-25	18-22	—
SD197	Furazolidone	FR	100 mcg	20-25	18-22	—
SD042	Furoxone	FX	100 mcg	20-25	18-22	—
SD169	Fusidic Acid	FC	30 mcg	—	26-37	—
SD166	Gentamicin	GEN	50 mcg	21-28	25-33	20-25
SD170	Gentamicin	GEN	30 mcg	21-28	24-32	19-24
SD753	Garifloxacin	GAT	10 mcg	30-37	27-33	20-28
SD740	Garifloxacin	GAT	30 mcg	32-40	31-37	24-32
SD265	Impipenam/Cilastin	IC	10/10 mcg	28-35	—	24-31
SD282	Impipenam/EDTA	IE	10/750 mcg	25-31	—	19-27
SD214	Isepamicin	IP	30 mcg	20-28	24-32	19-24
SD223	Kanamycin	K	5 mcg	16-22	19-26	—
SD018	Lincomycin	L	2 mcg	—	15-22	—
SD084	Lincomycin	L	10 mcg	—	15-22	—
SD098	Lincomycin	L	15 mcg	—	22-32	—
SD125	Lomefloxacin	LOM	30 mcg	27-33	23-29	22-28
SD260	Lomefloxacin	LOM	15 mcg	28-36	24-32	22-30
SD177	Mecillinam	MEC	25 mcg	24-36	—	—
SD068	Methanamine Mandalate	ME	3 mg	13-18	14-22	—
SD136	Methicillin	MET	10 mcg	—	17-22	—
SD137	Methicillin	MET	30 mcg	—	22-32	—
SD748	Mupirocin	MU	5 mcg	—	18-24	—
SD258	Nadifloxacin	NAD	5 mcg	28-34	29-37	25-32
SD731	Neomycin	N	10 mcg	13-19	17-25	—
SD022	Neomycin	N	30 mcg	17-23	18-26	—
SD085	Netillin (Netilmicin Sulphate) Netillin (Netilmicin Sulphate)	NET NET	10 mcg 10 mcg	17-25 18-24	20-29 —	13-19 15-21
SD086	Nitrofurantoin Nitrofurantoin	NIT NIT	100 mcg 100 mcg	20-25 17-23	18-22 —	— —
SD090	Nitrofurantoin	NIT	200 mcg	20-25	18-22	—
SD024	Nitrofurazone	NR	100 mcg	20-25	18-22	—
SD196	Nitroxoline	NO	30 mcg	16-24	18-28	—
SD184	Norfloxacin	NX	5 mcg	28-35	17-28	22-29
SD053	Novobiocin	NV	30 mcg	—	22-31	—
SD121	Novobiocin	NV	5 mcg	—	22-31	—
SD069	Ofloxacin	OF	2 mcg	29-33	24-28	17-21
SD026	Oleandomycin	OL	15 mcg	—	19-28	—
SD043	Oxacillin	OX	5 mcg	—	27-35	—
SD027	Oxytetracycline	O	30 mcg	18-25	19-28	—
SD070	Pefloxacin	PF	5 mcg	29-33	24-28	17-21

Product Code	Antimicrobial Agent	Symbol	Disc content	Diameter of zone of inhibition in mm		
				*Quality Control Limits		
				<i>E. coli</i> ATCC 25922	<i>S. aureus</i> ATCC 25923	<i>P. aeruginosa</i> ATCC 27853
SD144	Penicillin G	P	2 units	—	26-37	—
SD175	Pipemidic Acid	PA	30 mcg	18-25	13-19	11-16
SD185	Pipemidic Acid	PA	20 mcg	18-25	13-19	11-16
SD132	Piperacillin	PI	75 mcg	24-30	—	25-33
SD106	Polymyxin B	PB	50 units	12-16	—	11-17
SD139	Polymyxin B	PB	100 units	12-16	—	11-17
SD267	Prulifloxacin (Ulifloxacin)	PRU	10 mcg	28-34	19-27	24-32
SD096	Rifampicin	RIF	2 mcg	8-10	26-34	—
SD127	Rifampicin	RIF	30 mcg	9-12	32-40	—
SD128	Rifampicin	RIF	15 mcg	8-10	26-34	—
SD126	Roxithromycin	RO	30 mcg	—	22-30	—
SD059	Sisomicin	SS	10 mcg	17-24	19-26	17-22
SD054	Spiramycin	SR	30 mcg	—	22-29	—
SD101	Spiramycin	SR	100 mcg	—	22-29	—
SD091	Streptomycin	S	25 mcg	15-23	17-25	—
SD056	Sulfasomidine	SO	300 mcg	18-26	24-34	—
SD033	Sulphamethizole	SM	300 mcg	18-26	24-34	—
SD055	Sulphamethoxy-pyridazine	ST	300 mcg	18-26	24-34	—
SD036	Sulphaphenazole	SP	200 mcg	18-26	24-34	—
SD092	Sulphadiazine	SZ	100 mcg	12-20	16-26	—
SD034	Sulphadiazine	SZ	300 mcg	18-26	24-34	—
SD133	Tetracycline	TE	10 mcg	18-25	24-30	—
SD154	Tobramycin	TOB	30 mcg	18-26	19-29	19-25
SD093	Trimethoprim	TR	10 mcg	21-28	19-26	—
SD148	Trimethoprim	TR	25 mcg	21-28	19-26	—
SD149	Trimethoprim	TR	30 mcg	21-28	19-26	—

Product Code	Antimicrobial Agent	Symbol	Disc content	Diameter of zone of inhibition in mm		
				*Quality Control Limits		
				<i>E. coli</i> ATCC 25922	<i>S. aureus</i> ATCC 25923	<i>P. aeruginosa</i> ATCC 27853
SD038	Triple Sulpha	S3	300 mcg	15-23	24-34	—
SD199	Tylosine	TL	15 mcg	—	22-30	—
SD155	Vancomycin	VA	5 mcg	—	15-19	—
SD163	Vancomycin	VA	10 mcg	—	17-21	—
SD182	Virginamycin	VI	15 mcg	—	22-30	—

Product Code	Antimicrobial Agent	Symbol	Disc content
SD020	Metronidazole	MT	5 mcg
SD099	Metronidazole	MT	4 mcg

Cultural Response : Suceptibility test of Metronidazole discs (SD020, SD099) is carried out by incorporating it into 5 ml Fluid Thioglycollate Medium (M009). It is incubated at 35°C for 24 hours and results are recorded on the basis of appearance of growth using *Cl. perfringens* (ATCC 12924) as a test organism.

No. of Discs*	Growth
0	luxuriant
1	good
3	poor to good
5	poor
7	none

* addition to 5 ml medium

ZONE SIZE INTERPRETATIVE CHART

Product Code	Antimicrobial Agent	Symbol	Disc content	Interpretative criteria		Quality Control Limits*	
				S	R	<i>Bacteroides fragilis</i> 25285	<i>Fusobacterium necrophorum</i> 25286
SD837	Kanamycin	K	1000 mcg	≥ 10 mm	< 10 mm	Resistant (< 10 mm zone)	Sensitive (≥ 10 mm zone)

* : Expected diameter of zone of inhibition, as per Quality Control results obtained on Brucella Blood Agar w/ Hemin and Vitamin K1 (M1039).

Quality Control Limits for Antifungal Agent

(Based on results obtained on Mueller Hinton Agar + 2% Glucose + 0.5mcg/ml Methylene Blue Dye Medium)

Product Code	Antimicrobial Agent	Symbol	Disc content	Quality Control Limits					
				<i>C. albicans</i> ATCC 90028	<i>C. parapsilosis</i> ATCC 22019	<i>C. tropicalis</i> ATCC 750	<i>C. krusei</i> ATCC 6258	<i>C. albicans</i> ATCC 10231	<i>S. cerevisiae</i> ATCC 9763
SD111	Amphotericin-B	AP	100 units	10-17	11-20	8-12	9-14	10-18	11-18
SD233	Amphotericin-B	AP	20 mcg	10-15	10-17	8-10	8-12	10-16	8-12
SD270	Amphotericin-B	AP	50 mcg	12-15	13-17	13-17	14-20	15-23	16-25
SD115	Clotrimazole	CC	10 mcg	18-32	16-30	10-20	14-24	12-18	17-25
SD114	Fluconazole	FLC	10 mcg	27-38	22-33	16-25	—	18-22	—
SD221	Itraconazole	IT	10 mcg	16-20	11-18	8-13	8-15	18-22	—
SD276	Itraconazole	IT	30 mcg	18-22	20-24	11-18	8-15	18-22	—
SD224	Ketoconazole	KT	10 mcg	20-32	14-29	17-28	10-14	18-22	—
SD275	Ketoconazole	KT	30 mcg	32-36	26-32	26-32	19-26	31-40	—
SD274	Ketoconazole	KT	50 mcg	37-45	36-44	27-34	19-26	31-40	—
SD273	Miconazole	MIC	30 mcg	22-26	13-17	14-20	19-26	20-27	20-28
SD272	Miconazole	MIC	50 mcg	26-32	23-29	14-20	19-26	20-27	20-28
SD025	Nystatin	NS	100 units	19-27	16-25	16-21	15-20	15-23	17-25
SD271	Nystatin	NS	50 mcg	19-23	19-23	13-17	19-26	16-25	22-27