

Table 12.3a. Reference strains: Gram Positive Organisms cont.

Antibiotics, disc potencies and acceptable zones of inhibition for reference strains^a.

Antibiotic reported	Disc potency (µg)	Annular radii (mm)	
<i>Staphylococcus aureus</i> NCTC 6571			
(Sensitest & Blood Sensitest air 35°C)			
		Sensitest	Blood Sensitest
Amoxycillin ^b	2	9.1–11.9	9.0–11.6
Ampicillin	5	12.1–18.1	10.8–14.5
Benzylpenicillin	0.5 u	8.7–13.5	9.5–12.7
Cefoxitin	10	7.1–10.1	7.9–9.7
Ceftaroline	5	10.5–14.1	10.2–13.2
Cephalexin	100	10.7–15.5	11.9–14.7
Chloramphenicol	30	7.8–11.4	8.6–10.7
Ciprofloxacin	2.5	9.2–12.4	9.2–11.8
Clindamycin	2	8.5–12.9	8.1–11.2
Cotrimoxazole	25	10.1–13.3	10.9–13.1
Erythromycin	5	8.0–10.8	9.0–10.6
Fusidic acid	2.5	8.6–12.6	6.3–8.0
Gentamicin	10	6.6–9.4	7.5–8.9
Linezolid	10	7.9–13.1	8.5–11.5
Marbofloxacin ^c	5	8.9–11.0	8.9–10.5
Moxifloxacin	2.5	10.9–14.5	10.8–13.0
Mupirocin	5	7.4–12.2	8.1–11.6
Neomycin ^c	30	7.5–9.0	7.6–9.3
Nitrofurantoin	200	6.7–10.3	6.3–8.1
Novobiocin ^c	5	6.1–12.5	6.4–9.2
Oxacillin	1	7.4–10.4	7.9–10.6
Quinupristin/dalfopristin	15	9.2–12.4	7.0–10.0
Rifampicin	1	9.3–12.5	9.4–11.6
Rifampicin ^b	5	12.7–15.0	10.5–14.2
Teicoplanin	15	3.4–6.1	4.1–6.0
Tetracycline	10	11.3–14.4	10.1–13.3
Tigecycline	15	10.3–13.2	9.2–11.6
Trimethoprim	5	8.5–11.3	9.2–11.0
Vancomycin	5	2.8–4.9	3.0–4.8

Note: The acceptable range (95% confidence limits) is the mean \pm 2 standard deviations. The mean was derived from > 120 measurements with different operators using different batches of both agar and discs. It is statistically acceptable to use one hundred measurements to represent the “normal distribution” and this gives a confidence limit of 95%, meaning an in-built MU of 5% for the test.

a Reference strain testing must be performed: (i) In conjunction with the clinical isolate, or at least once weekly; (ii) When a new batch of medium is used; (iii) When a new batch of discs is used.

b The 2 µg amoxycillin and 5 µg Rifampicin discs are used for the susceptibility testing of *H. pylori* only.

c Antibiotic used in veterinary medicine only.