TABLE 1

Requirement of Iron for Maximal Growth of Some Bacteria

Organism[1]	Added iron μg/ml	Special conditions	Deferration of medium by:	Ref.
Aerobacter aerogenes	0.02		Oxine	239
Klebsiella pneumoniae	0.03		Oxine	239
Escherichia coli	0.03		Oxine	239
E. coli strain 18	2.0	(Linear to 0.035)	Alumina	189
E. coli B/r	0.085		Oxine	234
Shigella dysenteriae	0.1		Oxine	225
Salmonella typhimurium	0.06		$Mg(SO_4)\cdot 7H_2O$	250
Vibrio cholerae ("classical" and biotype *el tor*)	0.02		Alumina	94
Pseudomonas aeruginosa	0.085		Oxine	239
Pseudomonas sp.	0.1	20°C	None	73
	3.0	28°C	None	
Alkaligenes fecalis 19018	0.08		Chelex 100	[2]
Azotobacter vinelandii	1.0	N_2 or NH_4^+	Oxine	68
Brucella suis	0.03–0.1		Oxine	237
Rhizobium trifolii	0.06		$CaSO_4$	116
Corynebacterium diphtheriae	ca. 1.0		$Ca_3(PO_4)_2$	137
Nocardia opaca	0.2		Alumina	242
Mycobacterium smegmatis	ca. 2.0; 0.5		Alumina	253; 187
Mycobacterium phlei	0.2–0.3		None	4
Listeria monocytogenes	100.0		Oxine	215
Bacillus megaterium	0.02–0.04	Tubes, shaken	Alumina	223
	0.02–0.04	Tubes, shaken	Chelex 100	
	0.1–0.2	Flasks, shaken	Chelex 100	[3]
Clostridium tetani	0.05		Not stated	69
Clostridium perfringens	0.6; 1.0; 2.0		Several	160; 15; 203
Clostridium pasteurianum	2.0 (1.0); 8.8	N_2, (NH_4^+)	None	39; 102
Clostridium septicum	1.0		None	18

[1] Only wild-type strains listed. Mutants with altered requirements will be considered later.

[2] M. N. Guentzel, unpublished.

[3] 300 ml medium in 2,800 Fernbach flasks, K. G. Todar, unpublished.