Genus species Gram -	Morphology*	Pigment*	Glucose#	Nitrate^	Oxidase^	Lactose#	Mannitol#	Motility^	DNAase^	Indole#	H2S#	Citrate^	Urease^	MR#	VP#	PD^
Actinobacter calcoaceticus	G- rod	no	+ / no gas	-	-	+/-	+/-	-	-	-	-	+/-	+/-	ND	ND	ND
Alcailgenes fecalis	G- rod	yes/no	-	-	+	-	-	+	-	-	-	+	-	-	+	ND
Branhamella catarrhalis	G- cocci	no	-	+	+	-	-	ND	+	-	-	ND	-	ND	ND	ND
Citrobacter freundii	G- rod	no	+/ gas	+	-	+/gas	+/gas	+	-	-	+	+	-	+	-	ND
Enterobacter aerogenes	G- rod	no	+/gas	+	-	+/gas	+/gas	+	-	-	-	+	-	-	+	ND
Escherichia coli	G- rod	no	+/gas	+	-	+/gas	+/gas	-	-	+	-	-	-	+	-	-
Klebsiella oxytoca	G- rod	no	+/gas	+	-	+/gas	+/gas	-	-	+	-	+	+	-	+	ND
Klebsiella pneumoniae	G- rod	no	+/gas	+	-	+/gas	+/gas	-	-	-	-	+	+	-	+	ND
Proteus mirabilis	G- rod	no	+/gas	+/-	-	-	-	+	-	-	+	+	++	+	+/-	+
Proteus vulgaris	G- rod	no	+/gas	+	-	-	-	+	-	+	+	-	++	+	-	+
Providencia stuarti	G- rod	no	+ / no gas	+	-	-	-	+	-	+	-	+	-	+	-	ND
Pseudomonas aeruginosa	G- rod	yes/no	-	+/gas	+	-	-	+	-	-	-	+	-	-	-	ND
Salmonella typhimurium	G- rod	no	+/gas	+	-	-	+/gas	+	-	-	+	+	-	+	-	-
Serratia marcescens	G-rod	yes/no	+/gas	+	-	-	+/no gas	+	+	-	-	+	+/-	-	+	ND
Shigella dysenteriae	G- rod	no	+	+	-	-	+or-	-	-	+or-	-	-	-	+	-	-
Red= Physical*																
Blue= Enzyme^																
Orange= Growth#																
Yellow= defining																

Genus species Gram+	Morphology*	Pigment*	Hemolysis*	Nitrate^	Oxidase^	Catalase^	Amylase^	Fat Hydrolysis^	Spores*	motility*	DNAase^
Bacillus pumilus	G+ rod	yes/no	gamma	-	-	+	-	+/-	yes	+	-
Bacillus subtilis	G+ rod	yes/no	gamma	+	-	+	+	+	yes	+	-
Enterococcus faecalis	G+ cocci/chains	no	alpha/gamma	-	-	-	-	+	no	-	-
Lactbacillus bulgaricus	G+ rod	yes/no	gamma/beta	-	-	-	ND/-	ND/-	no	-	ND/-
Micrococcus luteus	G+ cocci/packets	yes	gamma	-	-	+	-	-	no	-	-
Mycobacterium smegmatis	G+ rod	no	ND	+	ND/-	+	ND/-	ND/-	no	ND	ND/-
Staphylococcus aureus	G+ cocci/clusters	yes/no	beta	+	-	+	-	+	no	-	+
Staphylococcus epidermidis	G + cocci	no	gamma	+	-	+	-	+	no	-	-
Streptococcus agalactiae	G+ cocci/chains	no	beta	-	-	-	-	-	no	-	+/-
Streptococcus faecalis	G + cocci/chains	no	alpha/gamma	-	-	-	-	+	no	-	-
Streptococcus mitis	G+ cocci/chains	no	alpha	-	-	-	-	ND/-	no	-	-
Streptococcus pneumoniae	G + cocci/chains	no	alpha	-	-	-	-	-	no	-	-
Streptococcus pyogenes	G + cocci/chains	no	beta	-	-	-	-	ND/-	no	-	-
Red= Physical*											
Blue= Enzyme^											
Orange= Growth#											
Yellow= defining											

Genus species	Coagulase^	Mannitol ferm.#	7.5% NaCl#	Esculin*	Acid Fast*	PYR	Lancefield Group*	Hippurate	cAMP*	Other
Bacillus pumilus	ND/-	ND/-	ND/-	ND/-	-	ND	ND	ND	ND	
Bacillus subtilis	ND/-	ND/-	ND/-	ND/-	-	ND	ND	ND	ND	
Enterococcus faecalis	ND/-	ND/-	ND/-	+	-	+	D	ND	ND	Bile Soluble
Lactbacillus bulgaricus	ND/-	ND/-	ND/-	-	-	ND	ND	ND	ND	
Micrococcus luteus	-	-	growth	ND/-	-	ND	ND	ND	ND	
Mycobacterium smegmatis	ND/-	ND/-	ND/-	ND/-	+	ND	ND	ND	ND	
Staphylococcus aureus	+	+	growth	ND/-	-	ND	ND	ND	ND	
Staphylococcus epidermidis	-	-	growth	ND/-	-	ND	ND	ND	ND	
Streptococcus agalactiae	ND/-	ND/-	ND/-	-	-	-	B	+	+	Bacitracin R
Streptococcus faecalis	ND/-	ND/-	ND/-	+	-	+	D	ND	ND	
Streptococcus mitis	ND/-	ND/-	ND/-	-	-	-	D	ND	ND	Optochin R- Bile insoluble
Streptococcus pneumoniae	ND/-	ND/-	ND/-	-	-	-	ND	ND	ND	Optochin S-Esculin -
Streptococcus pyogenes	ND/-	ND/-	ND/-	-	-	+	A	-	-	Bacitracin S

Red= Physical*										
Blue= Enzyme^										
Orange= Growth#										
Yellow= defining										