

We're required to memorize "E.coli, Klebsiella, Proteus and Morganella"

bacilli by means of Kligler's iron agar and other biochemical tests during 24-hours incubation at 37°C

Organisms	Slant	Butt	Gas	H <sub>2</sub> S	Urease	Citrate	Indole	Motility	Oxidase
<i>E.coli</i>	Y*	Y	±	-	-	-	+	±	-
<i>Citrobacter spp.</i>	Y*	Y	+	+	W	+	-	±	-
<i>Enterobacter-serratia</i>	Y*	Y	±	-	-	+	±	±	-
<i>Klebsiella spp.</i>	Y*	Y	±	-	±	+	-	-	-
<i>Proteus spp.</i>	R	Y	+	+	+	±	±	+	-
<i>Morganella spp.</i>	R	Y	-	-	+	-	+	+	-
<i>Providencia spp.</i>	R	Y	±	-	+	+	+	+	-
<i>Salmonella spp.</i>	R	Y	+	+	-	+	-	±	-
<i>Shigella spp.</i>	R	Y	-	-	-	-	±	-	-
<i>Pseudomonas spp.</i>	R	R	-	-	-	-	-	+	+
<i>Vibrio cholera</i>	R	Y	-	-	-	±	+	+	+
<i>Acinetobacter</i>	R	R	-	-	-	+	-	-	-

Y= YELLOW, Y\* = Few strains may be fermented after 24 hours, R= RED, W= WEAK.

SIM  
H<sub>2</sub>S + Indol + Motility

Ferred