

<b>Basic Characteristics</b>	<b>Properties (<i>Serratia marcescens</i>)</b>
Capsule	Negative (-ve)
Catalase	Positive (+ve)
Citrate	Positive (+ve)
Flagella	Positive (+ve)
Gas	Variable
Gelatin Hydrolysis	Positive (+ve)
Gram Staining	Negative (-ve)
H <sub>2</sub> S	Negative (-ve)
Indole	Negative (-ve)
Motility	Positive (+ve)
MR (Methyl Red)	Negative (-ve)
Nitrate Reduction	Positive (+ve)
OF (Oxidative-Fermentative)	Facultative Anaerobes
Oxidase	Negative (-ve)
Pigment	Positive (+ve)
Shape	Rods
Spore	Negative (-ve)
Urease	Positive (+ve)
VP (Voges Proskauer)	Positive (+ve)
<b>Fermentation of</b>	
Adonitol	Positive (+ve)
Arabinose	Negative (-ve)
Arabitol	Variable
Cellobiose	Negative (-ve)
DNase	Positive (+ve)
Dulcitol	Negative (-ve)
Erythritol	Variable
Fructose	Positive (+ve)
Fumarate	Positive (+ve)
Galactose	Positive (+ve)
Glucose	Positive (+ve)
Glycerol	Positive (+ve)
Lactose	Negative (-ve)
Malonate	Negative (-ve)
Maltose	Positive (+ve)
Mannitol	Positive (+ve)
Mannose	Positive (+ve)
Melibiose	Negative (-ve)
Mucate	Negative (-ve)
MyoInositol	Positive (+ve)

Raffinose	Negative (-ve)
Rhamnose	Negative (-ve)
Ribose	Positive (+ve)
Salicin	Positive (+ve)
Sorbitol	Positive (+ve)
Sucrose	Positive (+ve)
Tartrate	Negative (-ve)
Trehalose	Positive (+ve)
Xylose	Negative (-ve)
<b>Enzymatic Reactions</b>	
Acetate Utilization	Variable
Aesculine Hydrolysis	Positive (+ve)
Arginine Dehydrolase	Negative (-ve)
Casein Hydrolysis	Positive (+ve)
Esculin Hydrolysis	Positive (+ve)
Lipase	Positive (+ve)
Lysine decarboxylase	Positive (+ve)
ONPG ( $\beta$ -galactosidase)	Positive (+ve)
Ornithine Decarboxylase	Positive (+ve)
Phenylalanine Deaminase	Negative (-ve)
Tween 80 hydrolysis	Positive (+ve)
Tryptophan Deaminase	Negative (-ve)
Tyrosine Hydrolysis	Variable