

Biochemical Test and Identification of *Proteus mirabilis*

Basic Characteristics	Properties (<i>Proteus mirabilis</i>)
Capsule	Negative (-ve)
Catalase	Positive (+ve)
Citrate	Positive (+ve)
Flagella	Positive (+ve)
Gas from Glucose	Positive (+ve)
Gelatin Hydrolysis	Positive (+ve)
Gram Staining	Negative (-ve)
Growth in KCN	Positive (+ve)
H ₂ S	Positive (+ve)
Indole	Negative (-ve)
Motility	Positive (+ve)
MR (Methyl Red)	Positive (+ve)
Nitrate Reduction	Positive (+ve)
OF (Oxidative-Fermentative)	Facultative anaerobes
Oxidase	Negative (-ve)
Pigment	Negative (-ve)
Shape	Rods
Spore	Negative (-ve)
Urease	Positive (+ve)
VP (Voges Proskauer)	Negative (-ve)
Fermentation of	
Adonitol	Negative (-ve)
Arabinose	Negative (-ve)
Arabitol	Negative (-ve)
Cellobiose	Negative (-ve)
DNase	Variable
Dulcitol	Negative (-ve)
Erythritol	Negative (-ve)
Glucose	Positive (+ve)
Glycerol	Positive (+ve)
Inositol	Negative (-ve)
Lactose	Negative (-ve)
Malonate	Negative (-ve)
Maltose	Negative (-ve)
Mannitol	Negative (-ve)
Mannose	Negative (-ve)
Melibiose	Negative (-ve)

Mucate	Negative (-ve)
MyoInositol	Negative (-ve)
Raffinose	Negative (-ve)
Rhamnose	Negative (-ve)
Salicin	Negative (-ve)
Sorbitol	Negative (-ve)
Starch	Negative (-ve)
Sucrose	Negative (-ve)
Tartrate	Positive (+ve)
Trehalose	Positive (+ve)
Xylose	Positive (+ve)
Enzymatic Reactions	
Acetate Utilization	Negative (-ve)
Aesculine Hydrolysis	Negative (-ve)
Casein Hydrolysis	Negative (-ve)
Esculin Hydrolysis	Negative (-ve)
Lipase	Positive (+ve)
Lysine decarboxylases	Negative (-ve)
ONPG (β -galactosidase)	Negative (-ve)
Ornithine Decarboxylase	Positive (+ve)
Pectate Degradation	Negative (-ve)
Phenylalanine Deaminase	Positive (+ve)
Tryptophan Deaminase	Negative (-ve)