

## Biochemical Test of *Shigella flexneri*

Basic Characteristics	Properties ( <i>Shigella flexneri</i> )
Catalase	Positive (+ve)
Citrate	Negative (-ve)
Gas	Positive (+ve)
Gelatin Hydrolysis	Negative (-ve)
Gram Staining	Negative (-ve)
Growth in KCN	Negative (-ve)
H <sub>2</sub> S	Negative (-ve)
Indole	Variable
Motility	Non-Motile
MR (Methyl Red)	Positive (+ve)
Nitrate Reduction	Positive (+ve)
Oxidase	Negative (-ve)
Pigment	Negative (-ve)
Shape	Rods
Spore	Non-Sporing
Urease	Negative (-ve)
VP (Voges Proskauer)	Negative (-ve)
Fermentation of	
Adonitol	Negative (-ve)
Arabinose	Variable
Cellobiose	Negative (-ve)
DNase	Negative (-ve)
Dulcitol	Negative (-ve)
Glycerol	Negative (-ve)
Lactose	Negative (-ve)
Malonate	Negative (-ve)
Maltose	Variable
Mannitol	Positive (+ve)
Mannose	Positive (+ve)
Melibiose	Variable
Mucate	Negative (-ve)
MyoInositol	Negative (-ve)
Raffinose	Variable
Rhamnose	Negative (-ve)
Salicin	Negative (-ve)
Sorbitol	Variable
Sucrose	Negative (-ve)

Tartrate	Variable
Trehalose	Positive (+ve)
Xylose	Negative (-ve)
<b>Enzymatic Reactions</b>	
Acetate Utilization	Negative (-ve)
Aesculine Hydrolysis	Negative (-ve)
Arginine Dehydrolase	Negative (-ve)
Lipase	Negative (-ve)
Lysine	Negative (-ve)
ONPG ( $\beta$ -galactosidase)	Negative (-ve)
Ornithine Decarboxylase	Negative (-ve)
Phenylalanine Deaminase	Negative (-ve)