

TEST	PRINCIPLE	INDICATOR	COLOR	QUALITY CONTROL
UREA HYDROLYSIS 1. UREASE TEST	Christensen's Method Differentiates Proteus from Salmonella and Shigella speices	Phenol red -from light orange at pH 6.8 to magenta at 8.1	(+) MAGENTA – Alkaline 8.1 (-) ORANGE – Acid pH 6.8	(+)Proteus vulgaris (-) Escherichia coli
PHENYLALANINE DEAMINASE TEST	Phenylalanine to phenylpyruvic acid	10% Ferric Chloride	(+) GREEN (-) REMAINS TO ITS ORIGINAL COLOR	(+) Proteus vulgaris, Morganella, Providencia (-) Escherichia Coli
LYSINE IRON AGAR TEST	Salmonella Testing Lysine decarboxylase – P-aminoverine Lysine Lysine deaminase - Flavin Mononucleotide	- pH Indiccator: BROMCRESOL BLUE – Pyridoxal Phosphate (coenzyme) - H2S2: Ferrous Ammonium Citrte, Sodium Citrate	LYSINE DECARBOXYLASE (+) PURPLE SLANT (-) YELLOW SLANT LYSINE DEAMINASE (+) RED SLANT (-) PURPLE SLANT	