DP001	**Dual Performance Salmonella Medium**
Formula	
Ingredients:	**gms/lit**
Solid phase	7ml
Proteose peptone	12.00
Yeast extract	3.00
Lactose	12.00
Sucrose	12.00
Salicin	2.00
Bile salt mixture	9.00
Sodium chloride	5.00
Sodium thiosulphate	5.00
Ferric ammonium citrate	1.50
Acid fuchsin	0.10
Bromo thymol blue	0.065
Agar	15.00
Liquid phase	20ml
Final pH (at 25°C): 7.5 ± 0.2	

Directions:

1.Mark the dual performance bottle for sample detail.
2.Bring the frozen chicken leg specimen or any other food sample to 25 - 30°C and cut into small pieces under hygienic conditions.
3.Aseptically add 1 gm of finely chopped chicken leg pieces to 9 ml of sterile saline or other suitable diluents. Mix thoroughly using vortex meter. Use this suspension as inoculum. If larger quantity of sample is to be analyzed, proportionate amount of sterile saline should be used as diluents.
4.Add 3–5 ml of sample suspension to the broth medium by opening bottle under aseptic conditions and after addition, replace the cap Incubate at 37°C for 4- 5 hour.
5.After 4-5 hours of incubation remove the bottle from incubator. Tilt the bottle horizontally whereby solid medium is submerged with liquid phase. Keep it for 30–40 seconds and again bring bottle to standing position. Transfer bottle to incubator and incubate further at 37°C for 18 to 20 hours. After incubation read the results as indicated.

Principle:

Salmonella species are the leading cause of food-borne bacterial diseases in humans. The problem of human salmonellosis from consumption of contaminated foods generally remains on the increase worldwide. The dual performance bottle allows faster confirmation of the causative organism, eliminating the waiting period of 3-4 days giving results in just 24 hrs. Peptone special, lactose and sucrose provide necessary nitrogenous and carbonaceous compounds for growth of Salmonella. Bile salts along with indicator mixture inhibit other enteric bacteria present in food sample.

(I) QC Tests

	pH:	7.5 ± 0.2
	Color:	Colour of agar medium-Green coloured medium Colour of liquid medium- Green coloured medium
	Appearance:	In a sterile glass bottle, combination of broth and one agar coated surface.
(II)Sterility test		Passes release criteria
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after incubation at 35-37°C for 18-24 hours.	

	MICROORGANISM (ATCC)	GROWTH ON AGAR MEDIUM	GROWTH IN LIQUID MEDIUM	COLOR OF COLONY
	Escherichia coli 25922	Fair	Luxuriant	Orange (may have bileppt)

	Enterococcus faecalis 29212	inhibited	Inhibited	-
	S. Typhimurium 14028	luxuriant	luxuriant	Greenish bluecolonies, may have black center(H2Sproduction)
	S. Enteritidis 13076	luxuriant	luxuriant	Greenish blue colonies, may have blackcenter (H2Sproduction)
	S. Typhi 6539	luxuriant	luxuriant	Greenish blue

Refer disclaimer Overleaf

Precautions :	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	For selective enrichment and isolation of Salmonellae from chicken legs, meat products or other food samples.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	Combination of solid and liquid media in single bottle.

Rev: January2022