

TECHNICAL SHEET

DP002	Dual Performance Salmonella Medium- DCA (for pediatric use)		
Formula			
Ingredients:	gms/lit		
Heart infusion solids	10.00		
Proteose peptone	10.00		
Lactose	10.00		
Sodium citrate	20.00		
Ferric ammonium citrate	2.00		
Sodium deoxycholate	5.00		
Neutral red	0.02		
Agar	13.50		
Solid Phase	7ml		
Liquid Phase	20ml		
Final pH (at 25°C): 7.5 ± 0.2			
Directions:			
Recommended volume of blood to be tested in (DP002)-3-5ml			
Label the ready to use Dual performance medium bottle. Do not unscrew the cap. Remove the top seal of the cap. Disinfect the part of the rubber stopper which is now exposed. Transfer the Sample into the culture bottle by puncturing the rubber stopper with the sterile, disposable needle and syringe. Venting may be carried for aerobic cultures as in blood culture, Dual performance culturing system Incubate the bottle for 4-6 hours at 30 - 35°C. For adsorption on solid surface. Tilt the bottle horizontally whereby solid medium is submerged with liquid phase. DO NOT SHAKE OR HOLD MORE THAN 15 SECONDS. Revert into an upright position and incubate for 18-24 hours at 30-35°C or longer if necessary. Venting: Use sterile venting needle. Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. Discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do not vent the bottle for anaerobic cultures.			
Principle:			
Heart infusion solids is a source of carbon and nitrogen. Deoxycholate Citrate Agar contains Proteose Peptone as a source of carbon, nitrogen, vitamins and minerals. Lactose is a carbohydrate. Sodium citrate and Sodium deoxycholate inhibit gram positive bacteria, coliforms and Proteus species. Ferric Ammonium Citrate aids in the detection of H2S producing bacteria. Neutral Red is a pH indicator. Agar is a solidifying agent.			
(I) QC Tests			
pH:	7.5 ± 0.2		
Color:	Colour of agar medium- Reddish orange coloured medium Colour of liquid medium- Red coloured medium		
Appearance:	7ml of agar medium and 20ml of broth medium in a glass bottle		
(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	Poor	Luxuriant	Pink w/ bile precipitate
S. Typhimurium 14028	luxuriant	luxuriant	Colorless colonies with black center(H2S production)
S. Enteritidis 13076	luxuriant	luxuriant	Colorless colonies with black center(H2S production)

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:	A qualitative test for rapid growth and confirmation of Salmonella.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	Combination of solid and liquid media in single bottle.

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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