

TECHNICAL SHEET

PP029	SS Agar (Salmonella Shigella Agar) Plate			
Formula				
Ingredients:		gms/lit.		
Peptic digest of animal tissue		5.00		
Meat Extract B#		5.00		
Lactose		10.00		
Bile salt mixture		8.50		
Sodium citrate		10.00		
Sodium thiosulphate		8.50		
Ferric citrate		1.00		
Brilliant green		0.00033		
Neutral red		0.025		
Agar		15.00		
# - Equivalent to Beef extract				
Final pH (at 25°C): 7.0 ± 0.2				
Directions:				
Label the ready to use plate (PP029). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.				
Principle:				
SS Agar is a moderately selective medium in which gram-positive bacteria are inhibited by bile salts, brilliant green and sodium citrate. The high selectivity of components (Peptic digest of animal tissue and others) in Salmonella Shigella Agar allows the use of large inocula directly from faeces, rectal swabs or other materials suspected of containing pathogenic enteric bacilli. On fermentation of lactose by few lactose-fermenting normal intestinal flora, acid is produced which is indicated by change of color from yellow to red by the pH indicator-neutral red. Thus, these organisms grow as red pigmented colonies. Lactose non-fermenting organisms grow as translucent colorless colonies with or without black centers. Growth of Salmonella species appears as colorless colonies with black centers resulting from H ₂ S production. Shigella species also grow as colorless colonies which do not produce H ₂ S.				
(I) QC Tests				
pH:		7.4 ± 0.2		
Color:		Reddish orange coloured medium.		
Appearance:		Sterile Salmonella Shigella Agar in 85mm disposable plates.		
(II) Sterility test		Passes release criteria		
(III) Q.C. Test Microbiological				
Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.				
MICROORGANISM (ATCC)	INOCULUM	GROWTH	RECOVERY	COLOR OF COLONY
Escherichia coli 25922	50-100	fair	20-30%	Pink with bile precipitate
Enterobacter aerogenes 13048	50-100	fair	20-30%	cream pink
Enterococcus faecalis 29212	50-100	none-poor	≤10%	colorless
Proteus mirabilis 25933	50-100	Fair-good	30-40%	Colorless may have black center
Salmonella Choleraesuis 12011	50-100	Good-luxuriant	≥50%	Colorless With black center
Salmonella Typhi 6539	50-100	Good-luxuriant	≥50%	Colorless with black center

TECHNICAL SHEET

Salmonella Typhimurium14028	50-100	Good-luxuriant	>=50%	Colorless with black center
Salmonella Enteritidis 13076	50-100	Good-luxuriant	>=50%	Colorless with black center
Shigella flexneri 12022	50-100	good	40-50%	Colorless

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 differential and selective isolation of Salmonella and Shigella species from pathological specimens, suspected food stuffs etc.
Storage:	Store between 15-25°C. Use before expiry date on the label.
Packing:	20/50 disposable plates.

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.