

**TECHNICAL SHEET**

<b>B276</b>	<b>SCHAEDLER AGAR</b>	
<b>Formula</b>		
<b>Ingredients :</b>		<b>gms/lit.</b>
Casein enzymic hydrolysate		5.67
Proteose peptone		5.00
Soya peptone		1.00
Yeast Extract		5.00
Dextrose		5.83
Sodium chloride		1.67
Dipotassium hydrogen phosphate		0.83
Tris hydroxymethyl aminomethane		3.00
L-Cystine		0.40
Hemin		0.01
Agar		15.00
Final pH (at 25°C) :		7.6 ± 0.2
<b>Directions :</b>		
Suspend 43.41 grams in 950 ml purified / distilled water. Heat to boiling with frequent agitation to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and add 5% sterile defibrinated blood if desired. Mix well before dispensing. Avoid overheating and photooxidation of the medium, as it will retard the growth of bacteria.		
If desired, add rehydrated contents of 1 vial each of Vitamin K1 Supplement (BF118) and CNA Supplement (BF107) to prepare Schaedler CNA Agar or to prepare Schaedler KV Agar, aseptically add rehydrated contents of 1 vial each of Vitamin K1 Supplement (BF118) and KV Supplement (BF110) respectively to 1000 ml of Schaedler Agar.		
<b>Principle :</b>		
Casein enzymic hydrolysate, Proteose Peptone and Yeast Extract provide the vitamins, nitrogen and amino acids in Schaedler media. Dextrose is a carbon source, and Tris (Hydroxymethyl) amino methane is used to buffer the medium. Hemin (X factor) stimulates growth. Agar is the solidifying agent in Schaedler agar. The following supplements can be added to Schaedler media. Sheep, horse or rabbit blood (5%) – for enrichment and for detecting hemolysis and pigment production. Vitamin K1 (1%) – to promote growth of some pigmented Prevotella and Porphyromonas spp. (formerly known as Bacteroides). Colistin and nalidixic acid (0.01 grams/liter, each) (Schaedler I agar) – for selectively isolating anaerobic gram – positive cocci. Kanamycin (0.01 grams/liter) and vancomycin (7.5 mg / liter) (Schaedler KV Agar) – for selectively isolating anaerobic gram – negative bacteria..		
<b>QC Tests – (I) Dehydrated Medium</b>		
Colour :		Cream to yellow
Appearance :		Homogeneous Free Flowing powder
<b>(II) Rehydrated medium</b>		
pH (post autoclaving/heating) :		7.6 ± 0.2
Colour (post autoclaving/heating) :		Light amber
Clarity (post autoclaving/heating) :		Clear to slightly opalescent
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours under anaerobic condition.		
MICROORGANISM (ATCC )	GROWTH	

Refer disclaimer Overleaf

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	Bacteroides fragilis (25285 )	Luxuriant			
	Clostridium butyricum (9690 )	Luxuriant			
	Clostridium perfringens (12924)	Luxuriant			
	Clostridium sporogenes (11437)	Luxuriant			
	Streptococcus pyogenes (19615)	Luxuriant			
	Escherichia coli (25922)	Inhibited			
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. Clinical specimens must be obtained properly and transported to the laboratory in a suitable anaerobic transport container. 3. The microbiologist must be able to verify quality control of the medium and determine whether the environment is anaerobic. 4. The microbiologist must perform aerotolerance testing on each isolate recovered to ensure that the organism is an anaerobe.				
<b>Use:</b>	For enumeration of various aerobic and anaerobic bacterial species present in gastrointestinal tract. Note : B276 : For Schaedler CAN Agar: add Vitamin K1,Supplement (BF118) & CAN Agar Supplement (BF107) For Schaedler KVN agar : add Vitamin K1,Supplement (BF118) & KV Supplement (BF110) respectively to 1000 ml of Schaedler Agar (B276).				
<b>Storage:</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing:</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B276</b>	43.41g/l	11.518L	7.6 ± 0.2	5% sterile defibrinated blood if desired	121°C / 15 minutes

**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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