

TECHNICAL SHEET

B1306	ESCULIN FERMENTATION BROTH					
Formula						
Ingredients :		gms/lit.				
Heart, infusion from #		500.00				
Tryptose		10.00				
Sodium chloride		5.00				
Esculin		1.00				
Agar		1.00				
# Equivalent to beef heart infusion from						
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 34.50 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Esculin hydrolysis is observed on addition of Ferric citrate 0.1 gm/litre						
Principle :						
Tryptose and infusion from Heart infusion provide amino acids or other nitrogenous substances that support bacterial growth. Sodium chloride maintains osmotic equilibrium. Esculin is a glycoside incorporated as a differential agent to facilitate the identification of various organisms. Hydrolysis of esculin yields esculetin and dextrose.						
QC Tests – (I) Dehydrated Medium						
	Colour :	Cream to yellow				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	7.0 ± 0.2				
	Colour (post autoclaving/heating) :	Amber				
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel forms in tubes as slants				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18-24 hrs. at 35-37°C.						
	MICROORGANISM (ATCC)	GROWTH	ESCULIN	HYDROLYSIS		
	Escherichia coli (25922)	Good	-			
	Enterococcus faecalis (29212)	Luxuriant	+			
	Enterococcus faecium (19434)	Luxuriant	+			
	Yersinia enterocolitica (27729)	Luxuriant	+			
	Key : + = blackening of the medium					
	- = no change					
Precautions :		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
		3. Warning : Sodium azide has a tendency to form explosive metal azides with plumbing It is advisable to use enough water to flush off the disposables.				
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 :		It is s used for cultivation and differentiation of bacteria which hydrolyze esculin.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1306		34.5 g/l	14.49L	7.0 ± 0.2	Nil	121°C / 15 minutes

Refer disclaimer Overleaf

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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