

B518	ESCULIN IRON AGAR				
Formula					
Ingredients :		gms/lit.			
Esculin		1.00			
Ferric ammonium citrate		0.50			
Agar		15.00			
Final pH (at 25°C) : 7.1 ± 0.2					
Directions :					
Suspend 16.5 gms. in 1000 ml. distilled water. Heat to boiling with frequent stirring. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and pour into sterile petri plates to depth of 4-5 mm.					
Principle :					
The esculin in medium is hydrolyzed by Enterococci to form esculetin and dextrose. Esculetin reacts with iron salt and produce a dark brown to black complex which appears around the colonies, which results in verification and enumeration of enterococcal colonies. Results are reported as colonies / per 100 ml of sample.					
QC Tests - (I) Dehydrated Medium					
Colour :		Brownish yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Medium amber			
Clarity (post autoclaving/heating) :		Clear			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 20 minutes at 41 ± 0.5°C.					
MICROORGANISM (ATCC)		GROWTH		ESCULIN HYDROLYSIS	
Enterococcus faecalis (29212)		Luxuriant		+	
Escherichia coli (25922)		None - poor		-	
Precautions :					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
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 verifying Enterococcal colonies on membrane filters through which water samples have been filtered and which have been incubated on M-Enterococcus Agar, Modified.					
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
B518	16.5 g/l	30.30 L	7.1 ± 0.2	Nil	121°C / 15 minutes

Disclaimer:

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