

Violet Red Bile Agar (VRBA)

Product No. CM115

Intended Use

Used for enumerating *coliform* organisms. (GB)

Specification 250 g

Ingredients	(g/L)
Peptone	7.0
Bile Salt	1.5
Yeast Extract	3.0
Lactose	10.0
Sodium Chloride	5.0
Neutral Red	0.03
Crystal Violet	0.002
Agar	15.0
(pH 7.4 ± 0.1)	

Additional Reagents

No

Principle and Interpretation

Violet Red Bile Agar contains peptone to provide carbon and nitrogen sources for general growth requirements. Yeast extract supplies B-complex vitamins which stimulate bacterial growth. Bile salts and crystal violet inhibit most gram-positive microorganisms. Lactose is the carbohydrate source and neutral red is the pH indicator. Agar is the solidifying agent.

Directions

Suspend 41.6 g of the powder in 1 L of distilled water. Mix thoroughly. Heat with frequent agitation and boil for 1-2 minute to completely dissolve the powder. DO NOT AUTOCLAVE. Cool to approximately 50°C and use immediately.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Escherichia coli</i> ATCC 25922	50-250	TSA	quantitative	36°C±1°C 18h-24h	PR≥0.7, red or deep red with or without red precipitate around colonies
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					
<i>Citrobacter freundii</i> ATCC 43864	50-250	TSA	quantitative		
<i>Citrobacter freundii</i> CICC 25015 [CMCC(B) 48098]					
<i>Enterococcus faecalis</i> ATCC 29212	-	-	semiquantitative		G<5
<i>Enterococcus faecalis</i> CICC 25019 [CMCC(B) 32482]					

Storage Conditions

Keep container tightly closed and store in a cool dry place.

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM115-01	Violet Red Bile Agar (VRBA)	1000 g
CM115-07	Violet Red Bile Agar (VRBA)	100 mLx10
PB037	Violet Red Bile Agar (VRBA)	20 Plates
GCM115	Violet Red Bile Agar (VRBA)	250 g

For laboratory use in industry or R&D purpose. Not for drug, household or other uses.