

# DATA SHEET

## SteriMedia™ Violet Red Bile Glucose Agar (VRBGA) RTU Plates (Triple Layer Pack)



### Product Description

SteriMedia™ VRBGA RTU is a selective and differential medium used for the enumeration of Enterobacteriaceae in food, water, and pharmaceutical samples.

- Selective, differential medium for accurate detection and enumeration of Enterobacteriaceae with clear colony differentiation

### Product Specifications

<b>Item Name</b>	Ready-to-Use (RTU) SteriMedia™ VRBGA Plates
<b>Application / Usage</b>	Pharmaceutical microbiology (MLT) and Water & wastewater testing.
<b>Plate Size</b>	90 mm
<b>Fill Volume</b>	20-25 ml
<b>pH</b>	7.4 ± 0.2 @ 25°C
<b>Color</b>	Red to purple coloured
<b>Packaging</b>	Individually packed, 5 plates per pack for 90 mm Double and Triple Packed
<b>Sterility</b>	Sterilized at 121°C for 30 minutes and Aseptically Filled
<b>Shelf life</b>	3 Months
<b>Storage Condition</b>	Below 25°C
<b>HSN Code/Country of origin</b>	38210000 India

### Application

- Pharmaceutical microbiology (MLT)
- Clinical & diagnostic labs
- Food & dairy testing

### Key Feature

- Selective Medium – Bile salts & crystal violet inhibit Gram-positive bacteria
- Differential Detection – Glucose fermentation produces clear red/purple colonies
- Bile Precipitation Reaction – Distinct halo formation around Enterobacteriaceae
- Reliable Enumeration – Ideal for accurate counting of Enterobacteriaceae
- Clear Colony Visibility – Sharp contrast for easy interpretation
- Consistent Performance – Batch-to-batch reproducibility

### Principle of the Medium

- Bile salts + crystal violet → inhibit Gram-positive bacteria
- Glucose fermentation → acid production
- Neutral red indicator → turns colonies red
- Bile precipitation → forms halo around colonies

### Result

- Enterobacteriaceae- Red/purple colonies with precipitate zone



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### Base Ingredients

Ingredients	G/L
Peptone	7.0
Yeast extract	3.0
Bile salts	1.5
Sodium chloride	5.0
Glucose (dextrose)	10.0
Neutral red	0.03
Crystal violet	0.002
Agar	12.0

### Growth Promotion Test

Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP and growth is observed after an incubation at 30°C-35°C for ≤ 3.

#### Test Procedure

1. Prepare inoculum:
  - 10–100 CFU for Selectivity
  - NLT 100 CFU for Inhibition Test
2. Inoculation:
  - Spread or streak on VRBGA plate
3. Incubation:
  - 30–35°C for 18–72 hours

Organism (ATCC)	Growth	Incubation Temperature	Incubation Period	Acceptance Criteria
Escherichia coli ATCC 8739	Good growth, red colonies with halo	30°C-35°C	18-24 Hours	Escherichia coli ATCC - Good growth, red/purple colonies with bile precipitate (halo)
Staphylococcus aureus 6538	No growth	30°C-35°C	72 Hours	Staphylococcus aureus- No growth (inhibited)

Product	Product Description	Packing
LPVRB001	Violet Red Bile Glucose Agar (VRBGA) 90mm Triple wrapped	1 Pack- 5 Plates Triple wrapped
LPVRB001BR	Bar Coded Violet Red Bile Glucose Agar (VRBGA) 90mm Triple wrapped	1 Pack- 5 Plates Triple wrapped
LPVRB001BRL	Bar Coded Lockable Violet Red Bile Glucose Agar (VRBGA) 90mm Triple wrapped	1 Pack- 5 Plates Triple wrapped

