BACGro™ Culture Media

GOLD STANDARD DIAGNOSTICS

Violet Red Bile Glucose Agar - Instructions for Use

Intended Use

BAC*Gro*™ Violet Red Bile Glucose Agar (VRBG), when prepared as directed, is intended for the detection and enumeration of *Enterobacteriaceae* from food and dairy products.

Product Summary

Violet Red Bile Glucose Agar contains peptone to provide vitamins and minerals, as well as a carbon and nitrogen source. Yeast extract promotes bacterial growth by supplying B-complex vitamins. Glucose provides a carbohydrate source. Bile salts and crystal violet aid in the inhibition of Gram-positive bacteria. Neutral red is a pH indicator in which glucose-fermenters will produce red colonies and halos (due to bile precipitation). Sodium chloride conserves osmotic balance. Agar is a solidifying agent.

Formulation (per Liter)*

Peptone	7.0 g
Yeast Extract	3.0 g
Glucose	10.0 g
Bile Salts No. 3	1.5 g
Sodium Chloride	5.0 g
Neutral Red	0.03 g
Crystal Violet	0.002 g
Agar	15.0 g
Total	41.5 g/L

*Formula may be supplemented and/or adjusted as required to meet performance criteria

Directions

1. Add 41.5 g of VRBG powder to 1 L of deionized water.
2. Stir while heating. Bring to a brief boil to dissolve completely.
3. **DO NOT AUTOCLAVE**.

Precautions

This product is for laboratory use only and should only be used by qualified, trained laboratory personnel. Personnel should always use proper aseptic technique and observe all biohazardous precautions. All microbiological cultures should be presumed to be infectious.

Avoid ingestion, inhalation, or contact with skin and mucous membranes. If contact occurs, flush the area with clean water.

Quality Control Specifications

Gold Standard Diagnostics tests each lot of manufactured BAC*Gro*™ culture media utilizing appropriate control organisms and specifications as documented on the Certificate of Analysis. End users should perform quality control testing in accordance with government regulatory requirements and accreditation guidelines. The following specifications are routinely used for testing:

Appearance (dehydrated): Pink-beige, free-flowing, homogenous. May contain dark particles.

Appearance (prepared): Red-purple, slightly opalescent.

pH (prepared): 7.2 – 7.6 at 25°C

Organism Performance:

Strain ID	Inoculum	Incubation			Result
		Time	Temp.	Environment	
E. coli (ATCC® 25922)	<100 CFU	22 - 26 hr.	35° C	Aerobic	Growth, pink-red colonies.*
E. coli (ATCC® 8739)	<100 CFU	22 - 26 hr.	35° C	Aerobic	Growth, pink-red colonies.*
S. enterica ser. Enteritidis (ATCC® 13076)	<100 CFU	22 - 26 hr.	35° C	Aerobic	Growth, pink-red colonies.*
S. enterica ser. Typhimurium (ATCC® 14028)	<100 CFU	22 - 26 hr.	35° C	Aerobic	Growth, pink-red colonies.*
P. aeruginosa (ATCC® 9027)	>1000 CFU	22 - 26 hr.	35° C	Aerobic	Growth, colorless colonies.

*Strains of E. coli and Salmonella may produce halos of precipitate around the colonies.

E. faecalis (ATCC® 19433)	>1000 CFU	22 - 26 hr.	35° C	Aerobic	No growth
E. faecalis (ATCC® 29212)	>1000 CFU	22 - 26 hr.	35° C	Aerobic	No growth

Limitations of the Procedure

This product is not labeled for use as a medical device, and is not intended to diagnose, treat, or prevent disease.

Due to variation in nutritional requirements, some species or strains may be encountered that grow poorly in this medium.

Further biochemical or serological testing is required for the identification of organisms grown in this medium.

Storage and Expiration

BAC*Gro*™ VRBG should be stored at 2 – 30 degrees Celsius. Because of the hygroscopic nature of dehydrated culture media, it should be stored in a dry place and the lid should remain tightly sealed. Media should be discarded if it is not free flowing or shows discoloration.

The expiration date printed on the label is applicable to media stored as directed.

Catalog Numbers

DCM4201- Violet Red Bile Glucose Agar, 500g

Revision History:

Revision	Description	Effective Date
02	Increased inoculum of 9027. Changed incubation temperature to 35C. Removed ISO 11133 claim.	16-JAN-2023
01	Document creation	19-MAR-2021