

MEDIUM PURPOSE

Chromogenic medium for detection of Van A / Van B VRE.*faecalis* & VRE.*faecium*.

COMPOSITION

The product is composed of a powder base (B) and 1 supplement (S).

Product	=	Base (B)	+	Supplement (S)
Total g/L		67.3 g/L		0.06 g/L
Composition g/L		Agar 15.0 Peptones and yeast extract 20.0 Salts 5.0 Chromogenic mix 27.3		Selective mix 0.06
Aspect		Powder Form		Powder Form
STORAGE		15-30°C		2-8°C
FINAL MEDIA pH		6.9 +/- 0.2		

PREPARATION (Calculation for 1L)

Step 1

Preparation of the base
CHROMagar
VRE Base (B)

- Disperse slowly 67,3g of powder base in 1L of purified water.
- Stir until agar is well thickened.
- Heat and bring to boil (100°C) while swirling or stirring regularly.
DO NOT HEAT TO MORE THAN 100°C. DO NOT AUTOCLAVE AT 121°C.

Warning 1: If using an autoclave, do so without pressure.

Advice 1: For the 100°C heating step, mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam).

- Cool in a water bath to 45-50°C. Swirl or stir gently to homogenize.

Step 2

Preparation of the
Supplement (S)

- Prepare a stock solution of the CHROMagar VRE supplement:
Add 60mg to 1ml (**0.5ml ethanol / 0.5ml sterile purified water**).
- Swirl well until complete dissolution.

Advice 2: This CHROMagar VRE supplement stock solution should be used immediately after preparation, or can be stored at -20°C and used within one month.

Final Media HELPING CALCULATION

1 L	60mg into 0.5ml of ethanol + 0.5 ml of sterile water
5 L	300mg into 2.5ml of ethanol + 2.5 ml of sterile water
25L	1,5g into 12.5ml of ethanol + 12.5 ml of sterile water

Step 3

Mixing of the
prepared base (B)
and the prepared
supplement (S)

- Add 1ml of CHROMagar VRE supplement solution to CHROMagar VRE base cooled at 45-50°C (final 60 mg/L).
- Swirl gently to homogenize.
- Pour into sterile Petri dishes
- Let it solidify and dry.

Final Media HELPING CALCULATION

1 L	Add 1ml of supplement to the prepared base
5 L	Add 5ml of supplement to the prepared base
25L	Add 25ml of supplement to the prepared base

Storage

- Store in the dark before use.
- Prepared media plates can be kept for one day at room temperature.
- Plates can be stored for up to one month under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

INOCULATION

Related samples can be processed by direct streaking on the plate, as well as prior appropriate enrichment step.

- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate
- Incubate in aerobic conditions at 37°C for 24 hours.

Typical Samples

e.g. stools samples

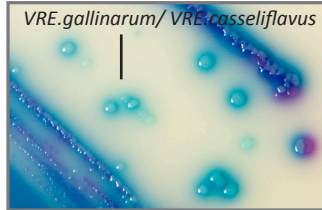
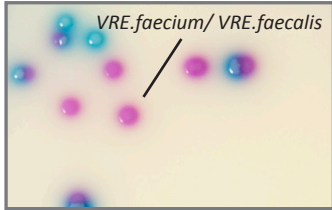
possible enrichment step
Direct streaking
or spreading technique

CHROMagar™ VRE

INTERPRETATION

Microorganism	Typical colony appearance
VRE. <i>faecium</i> VRE. <i>faecalis</i>	→ pink to mauve
VRE. <i>gallinarum</i> VRE. <i>casseliflavus</i>	→ blue or inhibited
Other Gram positive bacteria	→ inhibited
Gram negative bacteria	→ inhibited
Yeasts and mould	→ mostly inhibited

Typical colony appearance



The pictures shown are not contractual.

LIMITATIONS

- Definite identification may require additional testing.
- Some rare strains of *Lactobacilli*, *Pediococcus* can sometimes appear as pinpoint mauve colonies. However, they can be differentiated with PYR test: PYR(+) --> VRE ; PYR(-) --> *Lactobacilli*, *Pediococcus*.
- Further to 24h incubation, some rare strains of *E.gallinarum* can sometimes appear as mauve colonies.
- Vancomycine R-type should be determined and confirmed by further testing.

QUALITY CONTROL

Please perform Quality Control according to the use of the medium and the local QC regulations and norms. Good preparation of the medium can be tested, isolating the ATCC strains below:

Microorganism	Typical colony appearance
VRE. <i>faecalis</i> ATCC® 51299	→ mauve, small
<i>E.faecalis</i> ATCC® 29212	→ inhibited
<i>E.coli</i> ATCC® 25922	→ inhibited
<i>C.tropicalis</i> ATCC® 1369	→ inhibited
<i>S.aureus</i> ATCC® 25923	→ inhibited
<i>E.casseliflavus</i> ATCC® 700327	→ inhibited
<i>E.gallinarum</i> ATCC® 49573	→ inhibited

Pack Size	Ordering References	Base	Supplement
5000 ml 250 Tests of 20ml	VR952	VR952(B) Weight: 336,5gr	VR952(S) Weight: 0.3gr
25L 1250 Tests of 20ml	VR953-25	VR953-25(B) Weight: 1682,5gr	VR953-25(S) Weight: 1.5gr

WARNINGS

- Do not use plates if they show any evidence of contamination or any sign of deterioration.
- Do not use the product beyond its expiry date or if product shows any evidence of contamination or any sign of deterioration.
- For Research Use Only. Not for use in Diagnostic Procedure. Performance has not been established. This laboratory product should be used only by trained personnel in compliance with good laboratory practices.
- Any change or modification in the procedure may affect the results.
- Any change or modification of the required storage temperature may affect the performance of the product.
- Unappropriate storage may affect the shelf life of the product.
- Recap the bottles/vials tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
- For a good microbial detection: collection and transport of specimen should be well handled and adapted to the particular specimen according to good laboratory practices.

DISPOSAL OF WASTE

After use, all plates and any other contaminated materials must be sterilized or disposed of by appropriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121°C for at least 20 minutes.

REFERENCES

Please refer to our website page «Publications» for scientific publications about this particular product.

Web link: <http://www.chromagar.com/publication.php>

IFU/LABEL INDEX

- Quantity of powder sufficient for X liters of media
- Expiry date
- Required storage temperature
- Store away from humidity

Need some Technical Documents?

Available for download on www.CHROMagar.com

- Certificate of Analysis (CoA) --> One per Lot
- Material Safety Data Sheet (MSDS)

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NT-EXT-048 V4 / 05-Mar-15