CHROMagar™ B.cereus

Instructions For Use

Available in several languages



Click below for:

ENGLISH

FRANCAIS

ESPAÑOL

DEUTSCH



CHROMagar™ B.cereus

MEDIUM PURPOSE

Chromogenic medium for detection and enumeration of Bacillus cereus group in environmental and food samples.

Bacillus cereus is a spore-forming bacterium that can be frequently isolated from soil and some food which produces toxins. These toxins can cause two types of illness: one type characterized by diarrhea (long incubation, 8-16 hours) and the other by nausea and vomiting (short incubation, 1-6 hours).

The short-incubation form is most often associated with rice dishes that have been cooked and then held at warm temperatures for several hours. The long-incubation form of B. cereus is frequently associated with meat or vegetable containing foods, after cooking. The bacterium has been isolated from dried beans and cereals, and from dried foods such as spices, seasoning mixes and potatoes.

COMPOSITION

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

Product =	Base (B)	+	Supplement (S)
Total g/L	33.3 g/L		3.0 g/L
Composition g/L	Agar 15.0 Peptone and yeast extract 8.0 NaCl 10.0 Chromogenic mix 0.3		Selective mix 3.0
Aspect	Powder Form		Powder Form
STORAGE	15/30 °C		2/8 °C
FINAL MEDIA pH	6.8 +/- 0.2		

PREPARATION (Calculation for 1 L)

Step 1

Preparation of the base CHROMagar™ B.cereus (B)

- Disperse slowly 33.3 g of powder base in 1 L of purified water.
- Stir until agar is well thickened.
- Heat to 121 °C +/- 1 °C during 15 min.
- Cool in a water bath to 47 °C +/- 2 °C.

Step 2

Preparation of the Supplement (S)

- Add 3 g of CHROMagar™ B.cereus supplement to 40 mL of purified water.
- Agitate by magnetic stirring and homogenize during at least 30 minutes at high speed (~1200 rpm) to obtain a milky suspension

from beige to brownish yellow color.

The color of the suspension may differ from batch to batch.

- Heat to 121 °C +/- 1 °C during 15 min.
- Cool in a water bath to 47 °C +/- 2 °C.

Step 3 Mixing of the

prepared mix (B) and the prepared supplement (S)

Pouring

- Place the melted 47 °C cooled CHROMagar™ B.cereus base under gentle stirring.
- Homogenize the supplement suspension and add it gently and aseptically to the CHROMagar™ B.cereus <u>base</u>.
- Gently stirring the mix during 1 or 2 minutes until complete homogenisation.
- Pour IMMEDIATELY into sterile Petri dishes.
- Let it solidify and dry.

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 two months 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 or spread sample onto plate.
- Incubate aerobically at 30 °C for 18-24 hours.

Final

Media

1 L

5 L

Final

1 L

3 g into

15 g

HELPING CALCULATION

into 200 mL of purified water

HELPING CALCULATION

Add 40 mL of supplement

Add 200 mL of supplement

to the prepared base

to the prepared base

40 mL of purified water

F

or spreading technique

Typical Samples	
ood and environmental	
samples ***	
Direct streaking	

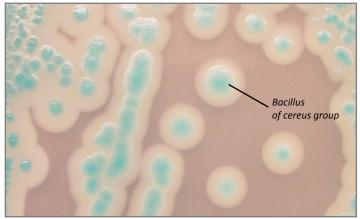
ENGLISH

CHROMagar™ B.cereus

INTERPRETATION

Microorganism	Typical colony appearance
Bacillus of cereus group	ightarrow blue, with white halo
Other Bacillus	→ blue, colourless or inhibited
Gram negative bacteria	→ inhibited
Yeast and moulds	→ inhibited

Typical colony appearance



The pictures shown are not contractual

REFERENCES

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

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

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 Laboratory use. 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
- Any change or modification of the required storage temperature may affect the performance of the product.
- Inappropriate 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.

PERFORMANCE & LIMITATIONS

- Depending on the strains, morphology of the colonies of Bacillus cereus group could vary. As an example, B. mycoïdes typically displays rhizoid form colonies.
- Definite identification may require additional testing, as those described in the ISO 7932 norm.

DISPOSAL OF WASTE

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

QUALITY CONTROL

∑ Pack Size

5000 mL

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:

Typical colony appearance	
→ blue with white halo	
→ blue with white halo	
→ inhibited	
→ inhibited	

Ordering References

BC732

IFU/LABEL INDEX

Catalogue reference

Consult instructions for use

Quantity of powder sufficient for X liters of media

Expiry date

Required storage temperature

Store away from humidity

Protect from light

Manufacturer Need some **Technical Documents?**

Supplement BC732(S) Weight: 15 g

for download on www.CHROMagar.com

Available

 Certificate of Analysis (CoA) --> One per Lot

 Material Safety Data Sheet (MSDS)

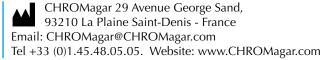


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250 Tests

of 20 mL





Base

BC732(B)

Weight: 166.5 g