

● CHROMagar™ **C.perfringens**



For detection and enumeration of
Clostridium perfringens



Plate Reading

- *Clostridium perfringens*
→ orange
- *C. difficile*
→ blue
- Other bacteria
→ inhibited or blue or metallic blue

For detection and enumeration of *Clostridium perfringens*

Background

"*Clostridium perfringens* is involved in food poisoning and animals' infections.

Beef, poultry, gravies, and dried or pre-cooked foods are common sources of *C. perfringens* infections. *C. perfringens* infection often occurs when foods are prepared in large quantities and kept warm for a long time before serving.

Although *C. perfringens* may live normally in the human intestine, illness is caused by eating food contaminated with large numbers of *C. perfringens* bacteria that produce enough toxin in the intestines to cause illness.

Everyone is susceptible to food poisoning from *C. perfringens*. The very young and elderly are most at risk of *C. perfringens* infection and can experience more severe symptoms that may last for 1 to 2 weeks. Complications, including dehydration, may occur in severe cases."¹

1- CDC - Centers for Disease Control and Prevention

CHROMagar™ C.perfringens allows the detection and enumeration of *Clostridium perfringens* in food and water samples. Specific and selective, this medium detects the *Clostridium perfringens* colonies by an orange coloration, the other microorganisms being blue, metallic blue or inhibited.

Medium Performance

1 TO BE USED WITH POURING OR SURFACE METHODS (BY DIRECT STREAKING, SPREADING OR FILTRATION TECHNIQUE)

whereas with TSC medium bacteria have to be placed between two layers of agar in order to grow in black colonies.

2 SPECIFIC MEDIUM FOR CLOSTRIDIUM PERFRINGENS

while TSC medium detects sulfate-reducing bacteria, including the non pathogens.

3 THE ORANGE COLORATION MAKES THE VISUALIZATION VERY EASY

on the other hand, the spread of the colonies black color and the fact that they faint after a while in TSC medium (as described in the ISO 14189) makes the colony count difficult.

Medium Description

Powder Base	Total 50.9 g/L	
	Agar 15.0	
	Peptones and yeast extract 25.0	
	NaCl6.0	
	Chromogenic and selective mix 1.4	
	Growth factors.....3.5	
	Storage at 15/30 °C - pH: 7.6 +/- 0.2	
	Shelf Life > 12 months	
+		
2 Supplements (included in the pack)	1 st : Powder..... 2 g/L	2 nd : Powder..... 0.12 g/L
	Storage at 2/8 °C	Storage at 2/8 °C
	Shelf Life ... > 12 months	Shelf Life ... > 18 months

Usual Samples	Industrial: Food, water, environmental samples
Procedure	Direct streaking. Incubation 24 h at 37 °C Anaerobic conditions.
Scientific Publications on this product: available on www.CHROMagar.com Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com	

Order References

Please use these product references when contacting your local distributor:

5000 mL pack PF652

(Included in this reference: powder base PF652(B) + supplement PF6522(S1) + supplement PF6522(S2))

Manufacturer: CHROMagar, 29 avenue George Sand,

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Find your nearest distributor on

www.CHROMagar.com/contact