

# ● CHROMagar™ Campylobacter



**For detection, differentiation and enumeration  
of thermotolerant *Campylobacter***



## Plate Reading

- *Campylobacter jejuni*,  
*coli*, *lari*  
→ red
- Other bacteria  
→ blue or inhibited

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### Background

"*Campylobacter* bacteria are a major cause of foodborne diarrhoeal illness in humans and are the most common bacteria that cause gastroenteritis worldwide. In developed and developing countries, they cause more cases of diarrhoea than foodborne *Salmonella*. The high incidence of *Campylobacter* diarrhoea, as well as its duration and possible sequelae, makes it highly important from a socio-economic perspective. In developing countries, *Campylobacter* infections in children under the age of two years are especially frequent, sometimes resulting in death." World Health Organisation (WHO) – fact sheet N°255

*Campylobacter* spp. are fastidious bacteria that may be difficult to recover due to suboptimal specimen transport and/or storage conditions and lack of proper culture procedures. Several culture media formulations have been developed, some blood-based other including charcoal. Each of these media have shown to be a mediocre compromise between specificity and sensitivity.

With CHROMagar™ *Campylobacter*, no compromises! This medium allies the highly specific and easy to read chromogenic technology with an unrivalled growth agar base.

### Intended use

CHROMagar™ *Campylobacter* is a selective chromogenic culture medium intended for use in the qualitative direct detection, differentiation and presumptive identification of thermotolerant *Campylobacter*. The test is performed with rectal swabs and stools, to aid in the diagnosis of *Campylobacter* infections. Results can be interpreted after 36-48 h of micro-aerophilic incubation at 42 °C.

Concomitant cultures are necessary to recover organisms for further microbiological testing or epidemiological typing.

A lack of growth or the absence of colonies on CHROMagar™ *Campylobacter* does not preclude the presence of *Campylobacter*. CHROMagar™ *Campylobacter* is not intended to diagnose infection nor to guide nor monitor treatment for infections.

CHROMagar™ *Campylobacter* can also be used in the detection of *Campylobacter* in the analyses of food products for human consumption, animal feed and in environmental samples in accordance with the ISO 10272-1.

### Medium Performance

1 **IN ACCORDANCE TO ISO 10272-1 REQUIREMENTS**  
as a selective medium for the detection of *Campylobacter*

2 **EASY READING**  
36-48 h incubation at 42 °C.  
The intense red colored colonies on a translucent agar facilitates the reading compared to charcoal based agar.

3 **HIGH RECOVERY RATE ~100 %**  
Enumerating *Campylobacter* has never been so simple and so reliable.

4 **HIGHLY SELECTIVE**  
In addition, a reinforced selectivity allows for a very clean plate, even with heavily flora loaded samples.

## Medium Description

<b>Powder Base</b>	Total ..... 51.2 g/L Agar ..... 15.0 Peptones and yeast extract ..... 25.0 NaCl ..... 9.0 Chromogenic and selective mix ..... 2.2 Storage at 15/30 °C - pH: 7.4 +/-0.2 Shelf Life ..... > 12 months
<b>+</b>	
<b>Supplement</b> (included in the pack)	Specific Powder supplement ..... 0.21 g/L Storage at 2/8 °C Aspect: Powder Form Shelf Life ..... > 12 months

<b>Usual Samples</b>	Clinical : Rectal swabs and stools. Industrial : Food and feed products, environmental samples.
<b>Procedure</b>	Direct streaking. Incubation 36-48 h at 42 °C Micro-aerophilic conditions.

Scientific Publications on this product: available on [www.CHROMagar.com](http://www.CHROMagar.com)  
Please read carefully the instructions for use (IFU document) available on [www.CHROMagar.com](http://www.CHROMagar.com)



### Analytical data \*

<b>Sensitivity</b>	100 %
<b>Specificity</b>	90 %

### Clinical data \*\*

100 %
94 %

\* Data obtained in the study «Evaluation of CHROMagar™», Forsberg *et al.* Poster CACMID 2016.

\*\* Data obtained in the study «Evaluation comparative de trois milieux de culture sélectifs; CHROMagar™ *Campylobacter* (CHROMagar), Karmali (Oxoid) et Campylosel (bioMérieux), pour la recherche des *Campylobacter* thermotolérants à partir des échantillons fécaux», Bensersa-Nedjar *et al.* Poster RICAL 2017

## Order References

Please use these product references when contacting your local distributor:

5000 mL pack ..... CP572  
(included in this reference: powder base CP572(B) + supplement CP572(S))  
25 L pack ..... CP573-25  
(included in this reference: powder base CP573-25(B) + supplement CP573-25(S))

Manufacturer: CHROMagar, 29 avenue George Sand,  
93210 La Plaine Saint-Denis - France  
Email: [CHROMagar@CHROMagar.com](mailto:CHROMagar@CHROMagar.com)  
Website: [www.CHROMagar.com](http://www.CHROMagar.com)  
Find your nearest distributor on  
[www.CHROMagar.com/contact](http://www.CHROMagar.com/contact)