

THE WIDEST RANGE OF **CHROMOGENIC MEDIA** FOR
COLORFUL SPECIFIC MICROBIAL DIFFERENTIATION

CHROMagar™
The Chromogenic Media Pioneer



DISCOVER OUR SOLUTIONS FOR
CLINICAL MICROBIOLOGY

CHROMagar

THE CHROMOGENIC MEDIA PIONEER



Founded in 1993 by **Dr. Alain Rambach**, CHROMagar supplies the widest range of dehydrated chromogenic culture media.

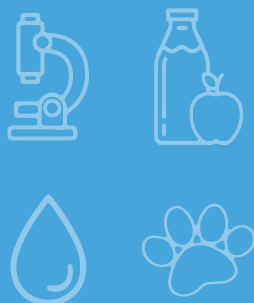
Dr Rambach is the **inventor and pioneer of chromogenic culture media technology**. In 1979 he invented and patented the first chromogenic culture medium.

Based on its teaching, **CHROMagar team** continues its **commitment** to **innovation** and **quality**.

Our **mission** remains unchanged:
Developing **rapid and efficient detection** and **identification solutions** to meet the **current and future challenges** of infection diagnosis and microbial infection control.



CHROMOGENIC APPLICATIONS



We provide innovative chromogenic culture media solutions in **four main fields**:



CLINICAL MICROBIOLOGY



FOOD INDUSTRY



WATER TESTING



VETERINARY MICROBIOLOGY

A TEAM COMMITTED TO INNOVATION



At CHROMagar, **innovation** and **research** had been at the heart of our activity for the past **45 years**.

More than 30% of our team is involved in **Research & Development**.

We continue to work on new solutions that facilitate and streamline **work** in laboratories, minimize **patient risks**, and reduce **healthcare costs**.

WORLDWIDE RECOGNITION

With a network of distributors present all **around the globe**, CHROMagar™ is well-known in the microbiology community for its **quality and innovation**.



REFERENCE LITERATURE



Renowned international scientists have studied the performance of our media, and **proved its efficiency**.

Consequently, our products have **the most extensive collection of publications and documentation** on chromogenic media.



**ISO 13485
CERTIFIED**



CHROMagar™ meets **rigorous quality standards** for products involved in clinical diagnostics.

Our commitment to **strict quality control** improves the company's processes with a view to complete client satisfaction.

MADE IN FRANCE

All CHROMagar™ products designed for clinical applications are made in France and **CE marked**.

This assures the **highest possible quality standards** and **compliance with EU regulations** for design, performance evaluation, and quality control processes.

CLINICAL MICROBIOLOGY

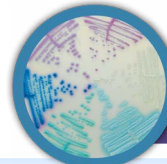
A complete range of chromogenic culture media to help you in clinical diagnostics



EXCLUSIVE

CHROMagar™ Candida Plus

For detection and differentiation of major clinical *Candida* species, including *C. auris*



The **first and only** chromogenic medium designed to **detect and differentiate *C. auris***, as well as the major clinical *Candida* species.

SENSITIVITY ≈ 100%¹ **SPECIFICITY** ≈ 100%¹

IVD **CE**

C. auris
Light blue with
blue halo

C. albicans
Green-blue

C. tropicalis
Metallic blue
with pink halo

C. krusei
Pink and fuzzy

C. glabrata
Mauve

CHROMagar™ Orientation

For isolation and differentiation of urinary tract pathogens



An **impressive highly specific** medium designed for **detecting, differentiating**, and presumptively **identifying** uropathogens as *E. coli* (99,3% specificity) and *Enterococcus*.

SENSITIVITY ≈ 100%² **SPECIFICITY** 98%²

IVD **CE**

E. coli
Dark pink to
reddish

Enterococcus
Turquoise blue

S. aureus
Golden, opaque,
small

S. saprophyticus
Pink, opaque,
small

*Streptococcus
agalactiae*
Light blue

*Klebsiella,
Enterobacter,
Serratia*
Metallic blue

*Pseudomonas
aeruginosa*
Translucent,
cream to blue

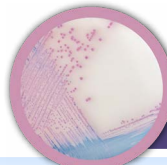
Citrobacter
Metallic blue
with red halo

Candida albicans
Colorless

Proteus
Brown halo

CHROMagar™ Salmonella

For detection and isolation of *Salmonella* species, including *S. Typhi* and *S. Paratyphi*



Compared to traditional media, this product **eliminates most false positives** and allows technicians to focus on the real contaminated samples.

SENSITIVITY 95%³ **SPECIFICITY** 88,9%³

IVD **CE**

Salmonella including *S. Typhi*
Mauve

Other **bacteria**
Blue, colorless or inhibited

¹ Mulet Bayona et al., 2022. J. of Fungi. ² Huang et al., 2001. Chinese Med. J.

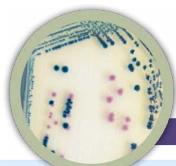
³ Merlino et al. 1996. J. Clin. Microbiol.



EXCLUSIVE

CHROMagar™ Y. enterocolitica

For detection and differentiation of pathogenic *Yersinia enterocolitica*



This chromogenic medium is developed for an **immediate differentiation of pathogenic biotypes** through a distinctive colony color. Its high selectivity minimizes background flora.

SENSITIVITY $\approx 100\%^4$ SPECIFICITY $99\%^4$ IVD CE

Pathogenic *Y. enterocolitica*
Mauve

Non-pathogenic *Y. enterocolitica*
and other **bacteria**
Inhibited, limited growth or metallic blue color

EXCLUSIVE

CHROMagar™ STEC

For detection of Shiga toxin-producing *E. coli* (STEC)



A chromogenic medium designed to detect not only the **classical STEC O157** but also **many other serotypes**. It is an excellent tool for screening a large number of samples.

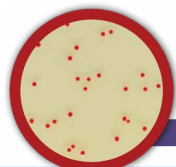
SENSITIVITY $91,4\%^5$ SPECIFICITY $86,7\%^5$ IVD CE

Most common **STEC serotypes**
Mauve

Other **enterobacteriaceae**
Colorless, blue or inhibited

CHROMagar™ Campylobacter

For detection, differentiation and enumeration of thermotolerant *Campylobacter*



This chromogenic medium **simplifies the detection of thermotolerant Campylobacter** with red colonies on a translucent agar, facilitating the **counting of colonies**.

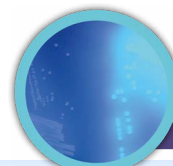
SENSITIVITY $\approx 100\%^6$ SPECIFICITY $94\%^6$ IVD CE

Campylobacter jejuni, *C. coli*, *C. lari*
Red

Other **bacteria**
Blue or inhibited

CHROMagar™ C.difficile

For detection of *Clostridioides difficile*



A **fluorogenic culture** medium, extremely sensitive and selective, designed to **simplify and speed up (24h)** the culture of *C. difficile*.

SENSITIVITY $95,4\%^7$ SPECIFICITY $88,9\%^7$ IVD CE

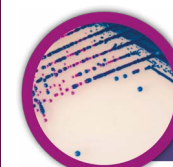
C. difficile
Colorless and fluorescent under UV light
at 365nm

Other **bacteria**
Colorless, not fluorescent or inhibited

LIM RambaQUICK™ StrepB Method

CHROMagar™ StrepB

For the isolation and differentiation of Group B *Streptococcus* (*S. agalactiae*)



A powerful screening tool, that combines a **selective enrichment** broth with a highly specific and sensitive medium, allowing the **detection of GBS (haemolytic and non-haemolytic)** while largely **inhibiting Enterococci**.

SENSITIVITY $94\%^8$ SPECIFICITY $\approx 100\%^8$ IVD CE

Group B *Streptococcus*
Mauve

Other **Microorganisms**
Blue, colorless or inhibited

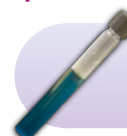


CHROMagar™ StrepB can be used alone or with the method.

EXCLUSIVE

LIM RambaQUICK™ StrepB

Selective enrichment broth for Group B *Streptococcus* (GBS) screening



1 Enrichment in
LIM RambaQUICK™
StrepB broth for
6-18h at 37 °C

2 Plate in
CHROMagar™
StrepB 18-24h
at 37 °C

IVD CE

⁴ Renaud et al., 2013. J. Clin. Microbiol.

⁵ Gouali et al., 2013. Eur. J. Clin. Microbiol.

⁶ Bensersa-Nedjar et al., 2017. RICA.

⁷ Roux et al., 2014. ASM Poster.

⁸ Salem & Anderson, 2015. Pathology.



EXCLUSIVE

CHROMagar™ StrepA

For screening of Group A Streptococci in throat samples

A new chromogenic medium allowing for a **straight forward color differentiation of GAS colonies** among the other bacteria in the complex throat flora.

SENSITIVITY 96,7%⁹ SPECIFICITY ≈ 100%⁹ **IVD** **CE**

Group A Streptococcus
Orange to red

Other oral Streptococci
Colorless or blue

EXCLUSIVE

CHROMagar™ Serratia

For detection of Serratia marcescens

A culture medium perfectly suited **for Serratia marcescens screening**.

SENSITIVITY ≈ 100%¹⁰ SPECIFICITY 97%¹⁰ **IVD** **CE**

S. marcescens
Green-blue to metallic blue

Other bacteria
Mostly inhibited, red or colorless

EXCLUSIVE

CHROMagar™ B.cepacia

For detection and enumeration of Burkholderia cepacia complex (BCC)

A chromogenic medium that detect **BCC** within **36h**. It's a solution for the **slowest-growing species** that may be missed on conventional media due to the **overgrowth of other organisms**.

SENSITIVITY ≈ 100%¹¹ SPECIFICITY 95%¹¹ **IVD** **CE**

Burkholderia spp.
Blue + / - blue halo

CHROMagar™ MRSA

For isolation and differentiation of methicillin-resistant Staphylococcus aureus (MRSA)

The **first and revolutionary** chromogenic medium for the detection of **methicillin resistant Staphylococcus aureus**. It significantly reduced response time and laboratory workload, enabling essential **large-scale patient screening**.

SENSITIVITY 95,6%¹² SPECIFICITY ≈ 100%¹² **IVD** **CE**

Methicillin Resistant Staphylococcus aureus (MRSA)
Pink to mauve

Methicillin susceptible Staphylococcus aureus
Inhibited

Other bacteria
Blue, colorless or inhibited

CHROMagar™ mSuperCARBA™

For detection and isolation of Carbapenem resistant Enterobacteriaceae (CRE)

Designed to **detect a wide range of carbapenemase producers** (KPC, NDM, VIM, IMP, OXA...) with an **impressive limit of detection** (10 CFU/ml). It can even detect weakly expressed carbapenemases like **OXA-48** and **OXA-244** while maintaining **high selectivity**.

SENSITIVITY ≈ 100%¹³ SPECIFICITY ≈ 100%¹³ **IVD** **CE**

CRE E. coli
Dark pink to reddish

CRE coliforms
Metallic blue

Other gram (-) CRE
Colorless

Other gram (-) non-CRE
Mostly inhibited

CHROMagar™ VRE

For detection of Van A/Van B VRE. faecalis & VRE. faecium

A chromogenic medium that enables the **easy** and **rapid detection** of **vancomycin-resistant E. faecalis** and **E. faecium** after only **24h** of incubation.

SENSITIVITY 95,5%¹⁴ SPECIFICITY 90,4%¹⁴ **IVD** **CE**

VRE. faecalis/VRE. faecium
Pink to mauve

E. gallinarum/E. casseliflavus
Blue or inhibited

Other bacteria
Inhibited

⁹ Gaskin et al., 2019. ASM Microbe.

¹⁰ Gaskin et al., 2020. ECCMID.

¹¹ Massoti et al., 2021. RICAI poster.

¹² Loulergue et al. 2006. Eur. J. Clin. Microbiol. Infect. Dis.

¹³ Garcia-Fernandez et al., 2017. Diagn. Micr. Infect. Dis.

¹⁴ Miller et al. 2011. CACMID.

DRUG RESISTANT BACTERIA DETECTION

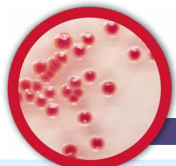
A range of chromogenic culture media specially designed for screening resistant bacteria



EXCLUSIVE

CHROMagar™ Acinetobacter

For detection of *Acinetobacter* species and multidrug-resistant *Acinetobacter* (MDR-A)



A chromogenic medium specifically designed to **facilitate colonization surveillance** in hospitals by allowing its **overnight growth** with an intense red colony color.

SENSITIVITY $\approx 100\%^{15}$ SPECIFICITY $99,9\%^{15}$ IVD CE

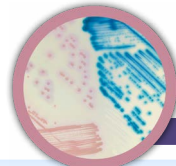
Acinetobacter spp.
Red

Other gram (-)
Blue or mostly inhibited

EXCLUSIVE

CHROMagar™ LIN-R

For detection and differentiation of gram (+) bacteria resistant to linezolid



A new chromogenic screening medium for **detecting, isolating, and differentiating** strains of *Staphylococcus* and *Enterococcus* resistant to linezolid.

SENSITIVITY $99\%^{18}$ SPECIFICITY $\approx 100\%^{18}$ IVD CE

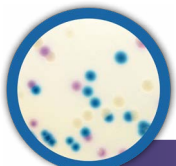
LZD-R *S. aureus*
Pink

LZD-R *S. epidermidis*
Pink

LZD-R *Enterococcus*
Metallic blue

CHROMagar™ COL-APSE

For detection of colistin-resistant gram-negative bacteria



May be useful as a **primary isolation medium** for detecting **colistin-resistant bacteria**, particularly those with plasmid-mediated mcr-1 or novel mechanisms of polymyxin resistance. It has an **impressive limit of detection** of 10 CFU/mL.

SENSITIVITY $\approx 100\%^{16}$ SPECIFICITY $81\%^{16}$ IVD CE

COL-R *E. coli*
Dark pink to reddish

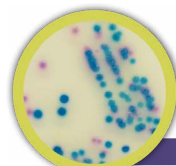
COL-R *Klebsiella*,
Enterobacter,
Citrobacter, *Serratia*
Metallic blue

COL-R *Pseudomonas*
Traslucent cream to
green

COL-R *Acinetobacter*
Cream, opaque

CHROMagar™ ESBL

For overnight detection of gram-negative bacteria producing Extended Spectrum Beta-Lactamase



Designed to enable the **early detection** of **carriers of ESBL-producing bacteria**, this chromogenic medium allows **direct culture from specimens** without the need for a selective pre-enrichment.

SENSITIVITY $\approx 100\%^{19}$ SPECIFICITY $97\%^{19}$ IVD CE

E. coli ESBL
Dark pink to reddish

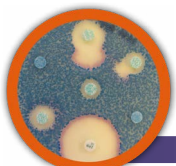
Klebsiella, *Enterobacter*,
Citrobacter ESBL
Metallic blue (+/- red halo)

Proteus ESBL
Brown halo

CHROMagar™ MH Orientation

Chromogenic Mueller Hinton agar

RESEARCH USE ONLY



This chromogenic medium, available for **research use only**, facilitates **chromogenic identification and antibiotic susceptibility testing** on the same plate. It can be used with **direct inoculation** of the sample.

CONCORDANCE WITH STANDARD PROCEDURE $94,8\%^{17}$

E. coli
Dark pink to reddish

Enterococcus
Turquoise blue

Klebsiella,
Enterobacter,
Citrobacter
Metallic blue

Proteus
Cream, opaque

CHROMagar™ Staph aureus

For isolation and direct differentiation of *Staphylococcus aureus*



This chromogenic medium has **unrivalled sensitivity and specificity** for detecting *S. aureus* within 18h-24h.

SENSITIVITY $95,4\%^{20}$ SPECIFICITY $99,4\%^{20}$ IVD CE

Staphylococcus aureus
Pink to mauve

Other bacteria
Colorless, blue or inhibited

¹⁵ Gaillot et al., 2010. ICAAC.

¹⁶ Abdul Momin et al., 2017. J. Med Microbiol.

¹⁷ Cercenado et al., 2009. ECCMID.

¹⁸ F. Layer et al., 2021. Diagn. Micr. Infect. Dis.

¹⁹ Laudat et al., 2010. SFM.

²⁰ Gaillot et al., 2000. J. Clin. Microbiol.

WHY CHOOSE CHROMagar™ ?

● HIGH QUALITY AND PERFORMANCE

≈ **97%**²¹

Average **SENSITIVITY**
of our clinical media

≈ **95%**²¹

Average **SPECIFICITY**
of our clinical media

And we **keep working** every day to **improve the performance** of our solutions !

● FAST RESULTS



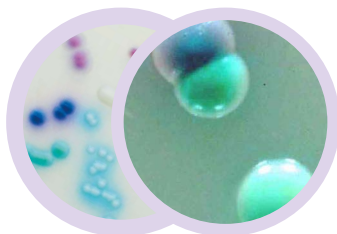
Results can be interpreted after

18-48h

● INTENSE COLORS

Intense colors that **remain in each colony**.

Furthermore, there is **no need for pH adjustment**, and the colour **remains stable** after 18h, 24h, 48h.



● DEHYDRATED MEDIA

Our products are commercialized in **dehydrated** form in the following **sizes**:



5L
For around
250 plates



25L
For around
1250 plates



Other sizes are also
available **under request**

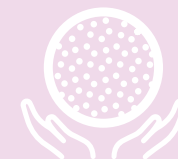
10-25Kg

WHY DEHYDRATED ?



Because this helps **simplify logistics** and **gain flexibility** in transportation and storage, as they can be shipped at **room temperature**.

Because it also ensures that the product has a **long shelf life** and allows you to prepare new plates **only when you need** them. This makes it possible to reduce waste of **expired ready-to-use plates**.



²¹The average is calculated based on our range of clinically microbiology media presented in this catalog.

THE ADVANTAGES OF CHROMOGENIC MEDIA

EASY INTERPRETATION



Easy **bacterial differentiation** by interpreting **colony color**, thanks to the specific enzymatic reactions for each bacterium.

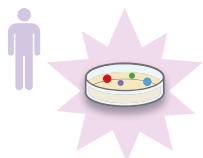
Results are visually interpreted, minimizing the need for additional **complex and time-consuming testing**.

SAVE MONEY AND TIME

CHROMagar™ media also offer **advantages** in terms of **efficiency, speed**, and **cost reduction** in overall analysis (including both, materials and labor expenses).



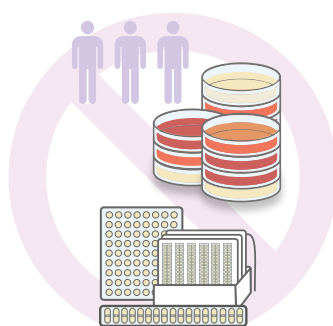
HOW ? CHROMagar™ VS TRADITIONAL MEDIA



The **SUPERIOR DETECTION PERFORMANCE** of CHROMagar™ plates allows for the replacement of multiple traditional media in the same test, **reducing manpower** requirements and **minimizing space and waste** in cold storage and incubators.

Their **GREATER SPECIFICITY** also enables **simpler confirmatory tests**, minimizing the need for expensive biochemical panels. Also, just one colony requires confirmation, improving the process and with **no need to investigate multiple colonies** with different morphologies.

No need for purification subculture, resulting in a streamlined process with **reduced labor** and **faster results**.



PRODUCT REFERENCES



PRODUCT NAME	SIZE	PRODUCT CODE
CHROMagar™ Candida Plus	5 L	CA242
	25 L	CA243-25
	10 kg	CA243-10kg
CHROMagar™ Orientation	5 L	RT412
	25 L	RT413-25
	10 kg	RT413-10kg
CHROMagar™ Salmonella	5 L	SA132
	25 L	SA133-25
CHROMagar™ C.difficile	5 L	CD122
CHROMagar™ StrepB	5 L	Base + 2 Supplements SB282
	25 L	Base + 2 Supplements SB283-25
LIM RambaQUICK™ StrepB	5 L	LB082
CHROMagar™ StrepA	5 L	Base + Supplement SP372
	25 L	Base + Supplement SP373-25
CHROMagar™ Serratia	5 L	Base + Supplement SM302
CHROMagar™ B.cepacia	5 L	BK992
CHROMagar™ MRSA	5 L	Base + Supplement MR502
CHROMagar™ mSuperCARBA™	5 L	SC172
	25 L	SC173-25
CHROMagar™ VRE	5 L	Base + Supplement VR952
	10 kg	Base + Supplement VR953-10kg
CHROMagar™ Acinetobacter	5 L	Base + Supplement AC092
		Supplement MDR CR102 CR102
CHROMagar™ COL-APSE	5 L	Base + Supplement CO262
CHROMagar™ MH Orientation	5 L	Base + Supplement MH482
	25 L	Base + Supplement MH483-25
CHROMagar™ LIN-R	5 L	Base + Supplement LN762
CHROMagar™ ESBL	5 L	Base + Supplement ES372
	25 L	Base + Supplement ES373-25
CHROMagar™ Y.enterocolitica	5 L	Base + Supplement YE492
CHROMagar™ Staph aureus	5 L	TA672
CHROMagar™ STEC	5 L	Base + Supplement ST162
	10 kg	Base + Supplement ST163-10kg
CHROMagar™ Campylobacter	5 L	Base + Supplement CP572
	25 L	Base + Supplement CP573-25

**ASK YOUR LOCAL DISTRIBUTOR
FOR MORE INFORMATION**

Reference contact :

CHROMagar™
The Chromogenic Media Pioneer

CHROMagar.com



📍 CHROMagar, 29 avenue George Sand, 93210 La Plaine Saint-Denis, France
For more informations about our products and technical documents, please refer to our website.
CHROMagar, RambaQUICK and mSuperCARBA are trademarks created by Dr. A. Rambach.
© 2024 CHROMagar LF-EXT-081-EN Version 1.0 January 2024