

40 YEARS

OF INNOVATION
SINCE 1979

Cost Efficient



ESBL
KPC
C. difficile

Campylobacter
Listeria
Salmonella

E. coli
E. coli O157
B. cereus

Intense Colours



S. aureus
MRSA

VRE
Pseudomonas
Cronobacter

Dehydrated Media



The Widest Range of Chromogenic Media
For Colourful Microbial Detection

Pioneer in chromogenic media since 1979!

The first chromogenic culture medium (for detection of *E. coli*) was invented and patented by Dr. A. Rambach in 1979. The introduction of this medium triggered a revolution in microbial diagnosis driven by the introduction of a whole range of media for the detection of key clinical & food borne pathogens.

The use of chromogenic culture media for the detection of bacteria is increasing steadily despite the introduction of other (often molecular biology based) techniques.

What is chromogenic technology applied to culture media?

It is colouring the developing bacterial colonies with distinctive colours in order to allow an easier differentiation of the growing micro-organism. Dr A. Rambach developed and patented the use, in microbiology, of a technology based on a soluble colourless molecule (called chromogen) which was composed of a substrate, targeting a specific enzymatic activity and a chromophore.

When the colourless chromogenic conjugate is cleaved by an enzyme of the target organism, the chromophore is released, and, in its unconjugated form the chromogen exhibits its distinctive colour and, due to reduced solubility forms a precipitate. The result is a very specific & distinctive colour based differentiation, which is clearly distinguishable to the naked eye under normal lighting conditions.

CHROMagar™ Packaging Sizes

The unit size of our packs is the **Liter**: quantity sufficient to prepare “X” L of media

Standard pack sizes are:

PACK Σ 5 L around 250 plates	PACK Σ 25 L around 1250 plates
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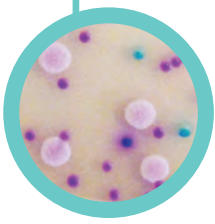
Σ stands for “quantity sufficient to prepare”

Dehydrated media:

- Flexibility of use: Prepare only the quantity you need.
- Very easy to prepare.
- Long shelf life: 2 to 3 years.



CHROMagar™ Candida



Product code:
CA222: 5 L pack
CA223-25: 25 L pack

Plate Reading

- *Candida albicans*
→ Green
- *Candida tropicalis*
→ Metallic blue
- *Candida krusei*
→ Pink, fuzzy

For isolation and differentiation of major clinical-significant *Candida* species

99 % Sensitivity/Specificity⁽¹⁾

Yeasts are increasingly important pathogens, particularly for immuno-depressed people such as the elderly, AIDS victims, etc. CHROMagar™ Candida will not only allow the growth and detection of yeasts (like traditional Sabouraud Agar) but **will also instantly allow you to differentiate various *Candida* species** solely by the colour of the colony. CHROMagar™ Candida gives a powerful and easy detection of mixed yeast cultures and in some cases antifungal resistant strains present in the samples may appear even as a minor population.



⁽¹⁾ Odds F.C. and Bernaets R. 1994. J. Clin. Microbiol. 32: 1923-1929.

CHROMagar™ Orientation



Product code
RT412: 5 L pack
RT413-25: 25 L pack

Plate Reading

- *E. coli*
→ Dark pink to reddish
- *Klebsiella*, *Enterobacter*,
Serratia
→ Metallic blue
- *Citrobacter*
→ Metallic blue with red halo
- *Proteus*
→ Brown halo
- *S. aureus*
→ Golden, opaque, small
- *S. saprophyticus*
→ Pink, opaque, small
- *Enterococcus*
→ Turquoise blue

For isolation and differentiation of urinary tract pathogens

99,3 % Sensitivity for *E. coli*⁽²⁾

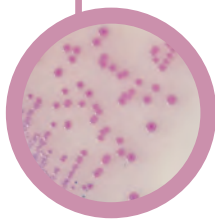
The major target of this medium is the detection of urinary tract pathogens with *E. coli* as red colonies, *Klebsiella* as metallic blue colonies, *P. mirabilis* as clear with brown halo colonies, etc.

However, CHROMagar™ Orientation has a broader application as a general nutrient agar for the isolation of various microorganisms. For instance, CHROMagar™ Orientation can be used to differentiate various microorganisms in other infected areas; e.g. scars. CHROMagar™ Orientation is **useful when supplemented with various antibiotics in detecting increasingly important nosocomial and multiple resistant microorganisms**



⁽²⁾ Merlino J. et al. 1996. J. Clin. Microbiol. 34: 1788-1793.

CHROMagar™ Salmonella



Product code
SA132: 5 L pack
SA133-25: 25 L pack

Plate Reading

- *Salmonella*
including *S. typhi*
→ Mauve
- Other bacteria
→ Blue, colourless
or inhibited

For detection and isolation of *Salmonella*

Sensitivity: 100 %⁽³⁾

Specificity: 89 %⁽³⁾ compared to 78 % with Hektoen Agar

Conventional media for the detection of *Salmonella* by H2S character have very poor specificity resulting in numerous false positives (*Citrobacter*, *Proteus*, etc.) among the rare, real positive *Salmonella*. The workload for unnecessary examination of suspect colonies is so heavy that real positive *Salmonella* colonies might often be overlooked in routine testing. Because of their poor specificity, conventional media require a tedious examination of at least 10 colonies per suspected sample. On the contrary, CHROMagar™ Salmonella eliminates most of those false positives and allows technicians to focus on the real contaminated samples.



⁽³⁾ Gaillot O. et al. 1999. Journal of Clinical Microbiology, 37 : 762-765

LIM RambaQUICK™ StrepB



Product code
LB082: 5 L pack

CHROMagar™ StrepB



Product code
SB282: 5 L pack/SB283-25: 25 L pack

Plate Reading

- Group B *Streptococcus*
→ Mauve
- Other microorganisms
→ Blue, colourless or inhibited

For isolation and differentiation of *Streptococcus agalactiae* (GBS)*

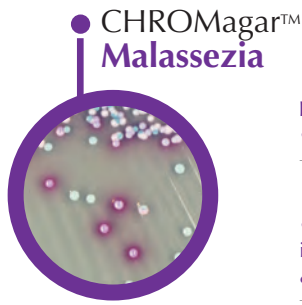
Sensitivity: 92 %/Predictivity: 95 %⁽⁴⁾

Group B *Streptococcus* (GBS) has been associated with severe neonatal infections such as septicaemia and meningitis. The detection of vaginal colonisation by GBS in pregnant women is the most effective strategy to prevent neonatal infections. LIM RambaQUICK™ StrepB Method is a powerful screening tool, which combines a selective enrichment broth with a highly specific and sensitive medium, allowing **detection of GBS (haemolytic as well as non-haemolytic)** while inhibiting the *Enterococci*.



⁽⁴⁾ Poisson et al, JMM 84 (2011) 490-491





Product code
MZ282: 5 L pack
MZ283-25: 25 L pack

CHROMagar™ Malassezia

Plate Reading

- *Malassezia furfur*
→ Large, pale pink and wrinkled
- Other *Malassezia* spp. including *M. globosa* & *M. restricta*
→ Mostly pink to purple

For detection of *Malassezia* spp.

Malassezia is a fungus naturally found on the animals and humans skin. On normal healthy skin it does not cause infections, but when the environment of the skin is altered, *Malassezia* species are able to cause several cutaneous diseases as severe dermatitis or otitis. Since members of the genus *Malassezia* share similar morphological and biochemical characteristics, the use of traditional culture media for differentiating them based on phenotypic features is not suitable.

CHROMagar™ *Malassezia* was developed with the goal of facilitating not only their detection, but also to improve an algorithm for the differentiation of the most common species.⁽⁵⁾

⁽⁵⁾ Revised Culture-Based System for Identification of *Malassezia* Species, by Takamasa et al. JCM No-2007.



Product code
CD122: 5 L pack

CHROMagar™ C.difficile

Plate Reading

- *C. difficile*
→ Colourless and fluorescent under UV light at 365 nm
- Other bacteria
→ Colourless, non fluorescent or inhibited

For isolation and direct differentiation of *Clostridium difficile**

95,4 % Sensitivity⁽⁶⁾

Clostridium difficile is the leading cause of nosocomial infectious diarrhea in adults, mostly in patients who have both medical care and antibiotic treatment.

Although PCR has become the leading *C. difficile* detection technique, culture is essential for strain typing and antimicrobial susceptibility testing. CHROMagar™ *C. difficile* is a **new fluorogenic culture medium, extremely sensitive and selective**, especially designed to simplify and speed up (24 h) the culture of *C. difficile*.

⁽⁶⁾ Gaillot et al. Poster 2053 ASM 2014



Product code
MR502: 5 L pack

1st MRSA
chromogenic
detection media
(2002)

CHROMagar™ MRSA

Plate Reading

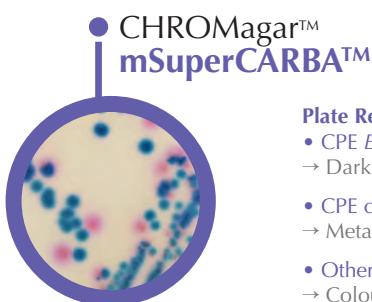
- Methicillin resistant *Staphylococcus aureus* (MRSA)
→ Rose to mauve
- Methicillin susceptible *Staphylococcus aureus*
→ Inhibited
- Other bacteria
→ Blue, colourless or inhibited

For isolation and differentiation of methicillin resistant *Staphylococcus aureus* (MRSA) including low level MRSA*

100 % Sensitivity/Specificity⁽⁷⁾

CHROMagar™ introduced a revolution in this field in 2002, with the first chromogenic medium for the detection of methicillin resistant *Staphylococcus aureus*: CHROMagar™ MRSA. This medium led to such significant reductions in both the response time and laboratory workload, that it allowed an absolutely necessary wide-scale patient screening.

⁽⁷⁾ Taguchi et al. 2004. J. Jap. Ass. Infec. Dis. Jan. 54-58.



Product code
SC172: 5 L pack
SC173-25: 25 L pack

CHROMagar™ mSuperCARBA™

Plate Reading

- CPE *E. coli*
→ Dark pink to reddish
- CPE coliforms
→ Metallic blue
- Other Gram negative CPE
→ Colourless
- Other Gram negative non-CPE
→ Blue, colourless or inhibited

For the detection of Gram negative bacteria with a reduced susceptibility to most carbapenem agents*

Since the launch of CHROMagar™ KPC in 2007, many carbapenemases have spread around the world, being necessary today to address the difficult detection of low level carbapenemases.

Alain Rambach and Patrice Nordmann have joined their efforts to develop a highly sensitive chromogenic medium, CHROMagar™ mSuperCARBA™, the new generation of chromogenic media that detects a large variety of carbapenemases KPC, NDM, VIM, IMP, OXA...with an impressive limit of detection (10 CFU/mL), even for weakly expressed carbapenemases like OXA-48, while maintaining a high level of selectivity.



Failure to rapidly detect antibiotic resistant Gram negative bacteria has contributed to their uncontrolled spread, and sometimes to therapeutic failures. **Added to CHROMagar™ Orientation, CHROMagar™ has introduced a set of selective supplements specially designed for screening Gram negative bacteria which express different kinds of reduced antibiotic susceptibility.**



Product code
KPRT2: 5 L pack
KPRT3-25: 25 L pack



For detection of carbapenem resistant bacteria*



Product code
ESRT2: 5 L pack
ESRT3-25: 25 L pack



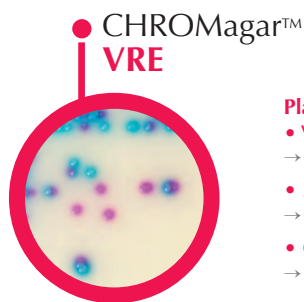
For detection of Extended Spectrum β-Lactamase producing bacteria*



Product code
CGRT2: 5 L pack
CGRT3-25: 25 L pack



For detection of Gram negative bacteria producing β-Lactamase*



Product code
VR952: 5 L pack

Plate Reading

- *VRE. faecalis* / *VRE. faecium*
→ Pink to mauve
- *E. gallinarum* / *E. casseliflavus*
→ Blue or inhibited
- Other bacteria
→ Inhibited

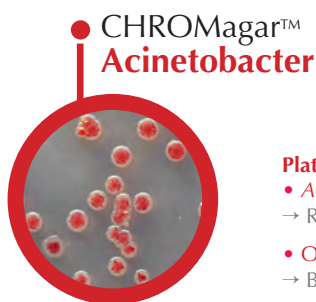
For detection of Van A/Van B *VRE. faecalis* & *VRE. faecium**

95,5 % Sensitivity/90,4 % Specificity⁽⁸⁾

Acquired vancomycin resistance in *E. faecalis* and *E. faecium* has the potential to be transmitted to aggressive pathogens. Their spread can be avoided by laboratory's ability to rapidly detect VRE and implementation of efficient control measures. The use of CHROMagar™ VRE media allows vancomycin resistant *E. faecalis* and *E. faecium* to be easily detected by colony colour after only **24 hours** of incubation.



⁽⁸⁾ M.L. Miller et al Poster P26 CACMID 2011.



Product code
AC092: 5 L pack

Plate Reading

- *Acinetobacter* spp.
→ Red
- Other bacteria
→ Blue or inhibited

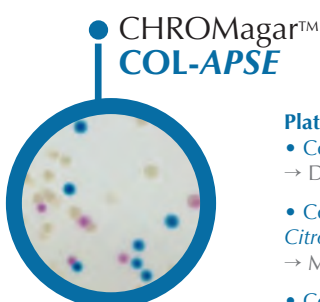
For detection of *Acinetobacter**

94,7 % Sensitivity/91,6 % Specificity⁽⁹⁾

Acinetobacter is an organism with high capacity for survival on environmental surfaces. Its ability to acquire antimicrobial resistance is a cause of increased concern for nosocomial infections. In hospitals, *Acinetobacter baumannii*, for instance, can penetrate the body through open wounds, catheters, and breathing tubes. Any effective infection control policy should include a faecal surveillance. CHROMagar™ *Acinetobacter* is a tool specifically designed to facilitate this step, **by allowing its growth in an intense red colony colour.**



⁽⁹⁾ K. Culbreath et al. Poster 2009.



Product code
CO262: 5 L pack

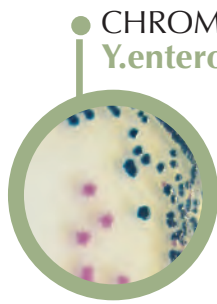
Plate Reading

- Col. R *E. coli*
→ Dark pink to reddish
- Col. R *Klebsiella*, *Enterobacter*, *Citrobacter*, *Serratia*
→ Metallic blue
- Col. R *Pseudomonas*
→ Translucent cream to blue
- Col. R *Acinetobacter*
→ Cream, opaque

For detection of colistin resistant Gram negative bacteria

CHROMagar™ COL-APSE is a sensitive and specific medium for the growth of colistin resistant bacterial pathogens with a lower limit of detection of 10 CFU/mL. This new chromogenic medium may be useful as a primary isolation medium in the surveillance and recovery of colistin resistant bacteria from complex human, veterinary and environmental samples especially those with plasmid mediated MCR-1 or novel mechanisms of polymyxin resistance.⁽¹⁰⁾

⁽¹⁰⁾ Muhd Haziq F Abdul Momin, David W Wareham. ECCMID 2017.



Product code
YE492: 5 L pack

CHROMagar™ Y. enterocolitica

Plate Reading

- Pathogenic *Y. enterocolitica*
→ Mauve
- Non pathogenic
Y. enterocolitica and other
bacteria
→ Inhibited or limited growth
or metallic blue colour

For detection and direct differentiation of pathogenic *Yersinia enterocolitica**

Sensitivity: 100 %/Specificity: 99 %⁽¹¹⁾

Among the *Yersinia* genus, *Yersinia enterocolitica* is one of the most common food borne pathogens. Traditional culture media, like the CIN agar allow for the growth of both pathogenic and non-pathogenic biotypes with the same aspect, resulting in an important workload on irrelevant isolates (false positives). With CHROMagar™ *Y. enterocolitica*, the pathogenic strains are immediately differentiated from other bacteria by a distinctive colony colour. The laboratory will then concentrate its efforts and resources only on suspect colonies that have a real potential of pathogenicity.

⁽¹¹⁾ Gaillot et al JCM 2012



Product code
TA672: 5 L pack

CHROMagar™ Staph aureus

Plate Reading

- *Staphylococcus aureus*
→ Pink to mauve
- Other bacteria
→ Colourless, blue or inhibited

For isolation and direct differentiation of *Staphylococcus aureus*

95,5 % Sensitivity/99,4 % Specificity⁽¹²⁾

Staphylococcus aureus is a major pathogenic bacterium found in the clinical field and in food industry. Nosocomial infections due to *S. aureus* create an increasing number of problems, so it is essential to accurately and rapidly detect *S. aureus*. Mannitol fermentation based traditional media lead to many false positives and false negatives. CHROMagar™ *Staph aureus* has **unrivalled sensitivity and specificity** for detecting *S. aureus* after 24 hours. This obviates the need for many useless catalase and latex agglutination tests on non-*S. aureus* strains.

⁽¹²⁾ Gaillot et al. 2000. J. Clin. Microbiol. 38: 1587-1591.



Product code
ST162: 5 L pack

CHROMagar™ STEC

Plate Reading

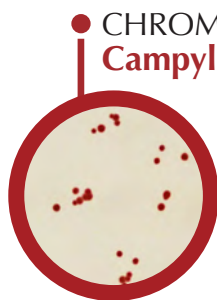
- Most common Shiga-Toxin
E. coli serotypes
→ Mauve
- Other *Enterobacteriaceae*
→ Colourless, blue
or inhibited

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

89,1 % Sensitivity/91,4 % Specificity⁽¹³⁾

An increasing and worrisome number of studies show that, non-O157 Shiga-Toxin producing *E. coli* (STEC) have been significantly responsible for foodborne poisoning outbreaks. In many cases, laboratories have limited their search for pathogenic *E. coli* to the common O157 serotype, due to the fact that there were no available selective culture media for non-O157 *E. coli*. CHROMagar™ STEC is designed to fill this gap: detection, as mauve colonies, of not only the classical STEC O157, but also many other serotypes. It is an excellent tool for a large number of samples screening procedures.

⁽¹³⁾ Malika Gouali, François-Xavier Weill et al JCM 2012



Product code
CP572: 5 L pack
CP573-25: 25 L pack

CHROMagar™ Campylobacter

Plate Reading

- *Campylobacter jejuni*,
coli, *lari*
→ Red
- Other bacteria
→ Blue or inhibited

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

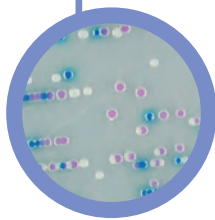
Campylobacter is a major cause of foodborne diarrheal diseases in humans and the most common bacterial cause of gastroenteritis around the world.

With CHROMagar™ *Campylobacter*, the detection of thermo-tolerant *Campylobacter* in red on a translucent agar facilitates the reading compared to traditional charcoal based agar where enumeration is difficult. Other microorganisms will be inhibited, or grow in blue colonies for clear differentiation.



Food Industry

CHROMagar™ O157



Product code
EE222: 5 L pack
EE223-25: 25 L pack

Plate Reading

- *E. coli* O157
→ Mauve
- Other bacteria
→ Steel blue, colourless or inhibited

For the selective isolation and differentiation of *E. coli* O157 in food/clinical samples*

98 % Sensitivity for *E. coli* O157⁽¹⁴⁾

The conventional medium for detection of *E. coli* O157, Sorbitol Mac Conkey Agar, has a poor specificity therefore creating a lot of false positives (*Proteus*, *E. hermannii*, etc.). Sorbitol Mac Conkey Agar is also difficult to read since the pathogen gives colourless colonies among red colonies. CHROMagar™ O157 is a chromogenic medium with easier detection of *E. coli* O157 as mauve colonies among blue and colourless colonies. Selectivity can be increased by adding potassium tellurite to our medium.

⁽¹⁴⁾ Bettelheim K.A. 1998. J. Appl. Microbiol. **85**: 425-428.

Rambach™ Agar

1st commercially available chromogenic media since 1989



Product code
RR702: 5 L pack
RR703-25: 25 L pack

Plate Reading

- *Salmonella*
→ Red
- Many coliforms
→ Blue, violet
- *Proteus*, etc.
→ Colourless

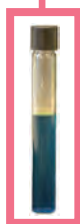
For detection and isolation of *Salmonella* spp. in clinical and food samples

93,7 % Sensitivity⁽¹⁵⁾

Traditional media for detection of *Salmonella* had a very poor specificity. The workload of unnecessary examinations of suspect colonies was so high that real positive *Salmonella* colonies were often missed in routine testing. Rambach™ Agar eliminates most false positives. Since Rambach™ Agar has a very high specificity: (1) fewer samples are positive and have to be checked and (2) there is no more need to investigate 10 different suspect colonies per sample.

⁽¹⁵⁾ Gruenewald R. et al. 1991. J. Clin. Microbiol. **29**: 2354-2356.

RambaQUICK™ Salmonella



Product code
SQ001: 1 L pack



CHROMagar™ Salmonella Plus



Product code
SA162: 5 L pack/SA163-25: 25 L pack

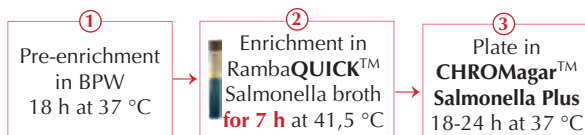
Plate Reading

- *Salmonella*
→ Mauve
- *E. coli*
→ Colourless
- Coliforms
→ Blue

For detection and isolation of *Salmonella* species including lactose positive *Salmonella* in food specimens

99 % Sensitivity⁽¹⁶⁾

The ISO 6579 for *Salmonella* testing is a direct result of the growing incidence of lactose positive *Salmonella* spp. isolated from cases of food poisoning. CHROMagar™ Salmonella Plus has been developed to meet the requirements of ISO 6579 and provides clear, easily visible identification of *Salmonella* spp. including: lactose positive *Salmonella*, *S. typhi* and *S. paratyphi*.



⁽¹⁶⁾ de Beaumont C. et al. .2006. Poster, ECCMID meeting 2006

CHROMagar™ Listeria Method



Product code CHROMagar™ Listeria
LM852: 5 L pack



Product code CHROMagar™ Identification Listeria
LK970: 250 mL pack

Isolation Plate Reading

- *L. monocytogenes*
→ Blue diameter less than 3 mm, regular and white halo

Confirmation Plate Reading

- *L. monocytogenes*
→ Rose surrounded by a white halo

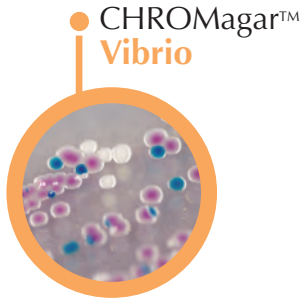
For detection, differentiation, enumeration and confirmation of *Listeria monocytogenes* from other bacteria in food samples

100 % Sensitivity⁽¹⁷⁾

Listeria monocytogenes is a pathogenic bacterium which can cause serious food poisoning. Since *L. monocytogenes* and *L. innocua* have similar biochemical properties, they cannot be differentiated on traditional media (Palcam, Oxford). On CHROMagar™ Listeria, *L. monocytogenes* colonies have a specific blue colour surrounded by a white opaque halo. The CHROMagar™ Listeria method allows detection of negative samples in only 2 days. This method requires only a single half Fraser enrichment step and confirmation of positive samples can be performed by picking a suspect colony directly from CHROMagar™ Listeria and transferring it to CHROMagar™ Identification Listeria giving a result the next day.

⁽¹⁷⁾ Validation study, Coignard M. 2005

Food Industry



Product code
VB912: 5 L pack
VB913-25: 25 L pack

CHROMagar™ Vibrio

Plate Reading

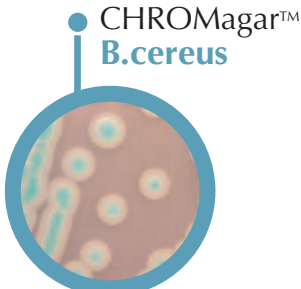
- *V. parahaemolyticus*
→ Mauve
- *V. vulnificus/V. cholerae*
→ Green blue to turquoise blue
- *V. alginolyticus*
→ Colourless

For isolation and detection of *V. parahaemolyticus*, *V. vulnificus* and *V. cholerae*

95 % Specificity⁽¹⁸⁾

V. parahaemolyticus, *V. vulnificus* and *V. cholerae* are pathogenic bacteria which can cause serious seafood poisoning. For the detection of those bacteria, traditional methods (TCBS) are long, require heavy workload and are not very sensitive. On the contrary, CHROMagar™ Vibrio medium helps to easily differentiate *V. parahaemolyticus*, *V. vulnificus* and *V. cholerae*, from other *Vibrio* directly at the isolation step by colony colour with a higher sensitivity than conventional methods.

⁽¹⁸⁾ Angela Di Pinto Università degli Studi di Bari Aldo Moro, Italy



Product code
BC732: 5 L pack

CHROMagar™ B.cereus

Plate Reading

- *Bacillus cereus* group
→ Blue with white halo
- Other *Bacillus*
→ Blue, colourless, or inhibited
- Gram negative bacteria, yeast and moulds
→ Inhibited

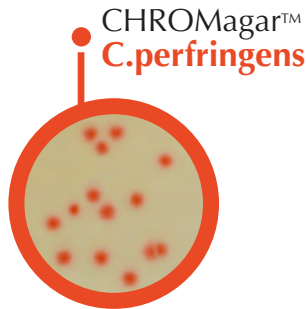
For detection and enumeration of *Bacillus cereus* group

100 % Sensitivity/100 % Specificity⁽¹⁹⁾

Bacillus cereus food poisoning is frequently associated with ready-to-eat products. The bacterium has been isolated from dried beans and cereals, and from dried foods such as spices, seasoning mixes and potatoes.

On CHROMagar™ B.cereus, the intense blue coloured colonies surrounded by a halo on a translucent agar facilitates the reading compared to traditional Mannitol based agar which displays red colonies on pink agar.

⁽¹⁹⁾ Adria Normandie Study 2012



Product code
PF652: 5 L pack

CHROMagar™ C.perfringens

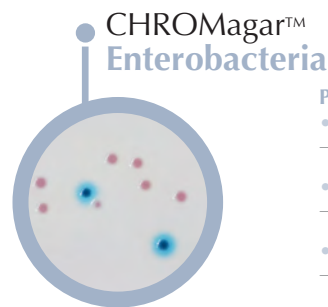
Plate Reading

- *Clostridium perfringens*
→ Orange
- Other bacteria
→ Blue, metallic blue or inhibited

For isolation and direct differentiation of *Clostridium perfringens*

Clostridium perfringens is involved in food poisoning and animals infections. CHROMagar™ C.perfringens allows the detection and numeration 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 are blue, metallic blue or inhibited.

CHROMagar™ C.perfringens can be used with pouring or surface methods, offering the latter a better performance than traditional media like TSC.



Product code
EB042: 5 L pack

CHROMagar™ Enterobacteria

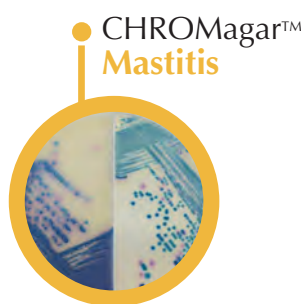
Plate Reading

- *E. coli*
→ Blue with/without blue halo
- Other *Enterobacteriaceae*
→ Pink to red
- *Proteus*
→ Red with swarming
- Other bacteria
→ Inhibited

For detection and enumeration of *Enterobacteriaceae*

The *Enterobacteriaceae* and coliform bacteria within this family represent two of the most common groups of indicator organism used by the food industry. In some countries, depending on regulatory requirements, the food industry has moved towards testing for *Enterobacteriaceae*.

CHROMagar™ Enterobacteria allows the detection and differentiation by the color of *E. coli* and other *Enterobacteriaceae*.



Product code
MS252: 2x5 L pack

CHROMagar™ Mastitis

Plate Reading

- *S. agalactiae*
→ Blue-green
- *S. uberis*
→ Metallic blue
- *S. aureus*
→ Pink

CHROMagar™ Mastitis GN

- *Klebsiella*, *Enterobacter*, *Citrobacter*
→ Metallic blue (+/- red halo)
- *E. coli*
→ Red

For isolation and differentiation of the main pathogens involved in Mastitis infections

Mastitis causes a reduction in the quantity and quality of milk output, increased veterinary expenses due to excessive use of medications, increased risk of residues in the milk or meat and, consequently, the possibility of damage public health.

CHROMagar™ Mastitis is a new commercially available tool for the rapid and simple differentiation of the main bacteria involved in Mastitis infections. It is supplied as a kit with two different media, one for the Gram positive bacteria, and the other for the Gram negative bacteria.

CHROMagar™ Staphylococcus



Product code
CQ382: 5 L pack

Plate Reading

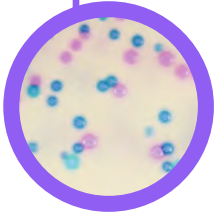
- *S. aureus*
→ Mauve
- Other *Staphylococcus*
→ Blue to colourless
- Other bacteria
→ Inhibited

For detection and isolation of *Staphylococcus* spp.

Staphylococci are highly successful at colonizing a variety of environments. They show a remarkable survival persistence even following heavy disinfectant protocols, contributing to their dissemination and challenging eradication.

CHROMagar™ Staphylococcus is a unique chromogenic medium allowing for the detection and differentiation by the colour of the various Staphylococci species, from environmental samples.

CHROMagar™ Streptococcus



Product code
CQ392: 5 L pack

Plate Reading

- *Streptococcus*
→ Blue
- *Enterococcus*
→ Mauve
- Other bacteria
→ Colourless or inhibited

For detection and isolation of *Streptococcus* spp.

In the Mastitis management of milking cow herds it is important to rapidly detect the presence of Streptococci and differentiate between environmental Streps (*S. uberis*, *S. dysgalactiae*) from contagious pathogens like *S. agalactiae* and Enterococci from faecal origin.

CHROMagar™ Streptococcus is a useful tool to analyse the Streptococci flora in Mastitis investigations.

For detection of *Cronobacter* spp.

CHROMagar™ Cronobacter



Product code
MC122: 5 L pack

Plate Reading

- *Cronobacter* spp.
→ Green to blue
- Other Gram negative
→ Colourless, clear green, black or yellow
- Gram positive bacteria
→ Inhibited

ISO 22964
STANDARD

For the detection and enumeration of β -glucuronidase positive *E. coli* in food and animal feeding stuffs

CHROMagar™ TBX



Product code
TX182: 5 L pack

Plate Reading

- *E. coli*
→ Blue
- *E. aerogenes*
→ Colourless
- *E. faecalis*
→ Inhibited

ISO 16649
STANDARD

For detection and enumeration of *E. coli* and other coliforms in water samples

CHROMagar™ CCA



Product code
EF342: 5 L pack

Plate Reading

- *E. coli*
→ Metallic blue to violet
- Other coliforms
→ Pink to red
- Other bacteria
→ Colourless, inhibited

ISO 9308-1
STANDARD

For detection, enumeration and isolation of *Listeria monocytogenes* and *Listeria* spp.

CHROMagar™ AOLA



Product code
under request

Plate Reading

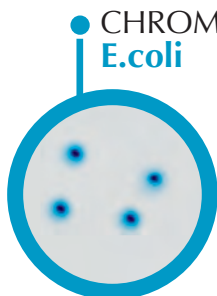
- *L. monocytogenes*
→ Blue with halo
- *L. innocua*
→ Blue without halo
- *E. faecalis*
→ Inhibited
- *E. coli*
→ Inhibited

ISO 11290
STANDARD

Water Industry

E. coli is a fecal contamination indicator. The general food standard limits are approximately 50 *E. coli* bacteria per gram, therefore, it is important to detect and enumerate them accurately. Traditional methods for detecting *E. coli* are extremely tedious and usually require heavy workload with tests of many suspect colonies.

For detection and enumeration of *E. coli* in food and water samples

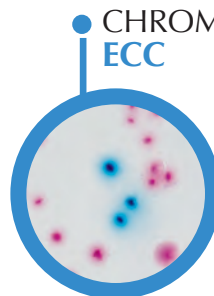


Product code
EC168: 5 L pack
EC169-25: 25 L pack

Plate Reading

- *E. coli*
→ Blue
- Other Gram negative bacteria
→ Colourless
- Gram positive bacteria
→ Inhibited

For the simultaneous detection and enumeration of *E. coli* and other coliforms in food or water samples

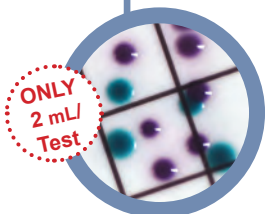


Product code
EF322: 5 L pack
EF323-25: 25 L pack

Plate Reading

- *E. coli*
→ Blue
- Other coliforms
→ Mauve
- Other bacteria
→ Colourless or inhibited

CHROMagar™ Liquid ECC



Product code
EL382: 5 L pack

Plate Reading

- *E. coli*
→ Blue
- Other coliform bacteria
→ Purple
- Other Gram negative bacteria
→ Colourless or inhibited

For the simultaneous detection and enumeration of *E. coli* and other coliforms in water samples

This is an innovative chromogenic culture medium to be used in broth form (without agar) within the water filtration technique, to impregnate the pad. **You can take an aliquot to prepare the exact quantity of broth you desire.** Thanks to this flexibility, you get rid of prepared media stock and shelf life management headaches, and are ensured of always working with fresh media.

AquaCHROM™ ECC



Product code
AQ056: 100 x 100 mL pack

Reading

- *E. coli*
→ Blue to blue-green liquid
- Other coliforms
→ Yellow Liquid

Presence/Absence of *E. coli* and coliforms in water samples

Liquid Technique

AquaCHROM™ ECC is a non-agar based medium designed to detect the presence of *E. coli* and other coliforms in 100 mL water samples. Its advantage, compared to other similar commercially available tests, resides in the fact that there is no need of ultra-violet lamp to confirm the presence of *E. coli* in the sample. The novel formulation of AquaCHROM™ ECC uses two different chromogens (instead of the traditional chromogen/fluorogen combination) which enables test results to be **read under normal lighting conditions**. Samples develop a yellow colouration when coliforms are present and a green colouration when *E. coli* is present.

CHROMagar™ Pseudomonas



Product code
PS832: 5 L pack

Plate Reading

- *Pseudomonas* including *P. aeruginosa*
→ Blue green
- Other Gram negative
→ Mauve to violet, or inhibited
- Gram positive bacteria
→ Mostly inhibited


For isolation and detection of *Pseudomonas* species

P. aeruginosa is a valid indicator for recreational water disinfection efficacy. This parameter is currently used as a criterion in the regulation of wading and swimming pools. Moreover, *P. aeruginosa* is important not only in terms of its role as an indicator, but also because it is an opportunistic pathogen whose transmission is often associated with water. CHROMagar™ *Pseudomonas* delivers **rapid and clear results** for detection of *Pseudomonas* by virtue of markedly different colony colouring.

CHROMagar™ Products by sample

Product	CLINICAL										ENVIRONMENTAL						VETERINARY			FOOD & WATER														
	Blood	CSF	Gastric Fluid	Nasal	Perineal	Rectal specimens	Skin	Sputum	Stools	Throat	Urine	Vaginal specimens	Wounds	Air	Clinical Material	Other Materials	Processed water	Recreational water	Soil	Surfaces	Pets	Livestock	Poultry	Animal stuff	Bakery	Eggs, egg products	Fish, seafood	Fruit, vegetables	Milk (dairy, powder)	Processed food, meat	Raw food, meat	Water, beverages		
CHROMagar™ Acinetobacter								●		●		●																						
CHROMagar™ C.difficile								●													●													
CHROMagar™ C3G ^R					●	●		●		●																								
CHROMagar™ Candida	●						●	●		●	●	●																						
CHROMagar™ COL-APSE					●	●		●		●												●	●											
CHROMagar™ ESBL					●	●		●		●												●	●											
CHROMagar™ KPC					●	●		●		●												●	●											
CHROMagar™ Malassezia							●														●	●												
CHROMagar™ MRSA					●	●				●				●	●						●	●	●											
CHROMagar™ mSuperCARBA™					●	●		●		●											●	●												
CHROMagar™ O157								●									●				●						●			●	●			
CHROMagar™ Orientation	●	●			●					●			●	●	●					●														
CHROMagar™ Salmonella	●							●								●	●	●			●	●	●		●	●								
CHROMagar™ Staph aureus					●		●	●		●			●	●	●						●	●	●		●	●			●	●	●	●		
CHROMagar™ STEC								●							●						●						●		●	●	●			
CHROMagar™ StrepB			●			●				●		●																						
CHROMagar™ VRE			●					●						●																				
CHROMagar™ Y.enterocolitica								●										●			●									●	●			
CHROMagar™ B.cereus																		●	●					●					●					
CHROMagar™ C.perfringens															●	●					●	●	●	●	●	●	●	●	●	●	●	●		
CHROMagar™ Campylobacter								●									●				●	●						●						
CHROMagar™ Enterobacteria															●								●		●	●	●	●	●	●	●	●	●	
CHROMagar™ Listeria																		●	●		●	●		●		●		●		●			●	
CHROMagar™ Mastitis																					●									●				
Rambach™ Agar															●	●	●					●	●			●	●	●	●	●	●	●	●	
RambaQUICK™ Salmonella																					●	●	●		●	●	●	●	●	●	●	●		
CHROMagar™ Salmonella Plus																●	●	●			●	●	●		●	●	●	●	●	●	●	●		
CHROMagar™ Staphylococcus																						●							●					
CHROMagar™ Streptococcus																					●							●						
CHROMagar™ Vibrio																	●		●							●	●						●	
CHROMagar™ AOLA																					●	●					●			●			●	
CHROMagar™ CCA																●	●																●	
CHROMagar™ Cronobacter																		●	●	●	●	●	●	●			●		●				●	
CHROMagar™ TBX																	●								●	●	●	●	●	●	●	●	●	●
AquaCHROM™ ECC																		●	●														●	
CHROMagar™ E.coli																●	●	●	●	●					●	●	●	●	●	●	●	●	●	
CHROMagar™ ECC																●	●	●	●	●					●	●	●	●	●	●	●	●	●	
CHROMagar™ Liquid ECC																●	●								●	●	●	●	●	●	●	●	●	
CHROMagar™ Pseudomonas														●			●	●	●	●										●			●	

5 Reasons to choose CHROMagar™ Chromogenic Media to bring efficiency to your Microbial Analysis




Fast Results in 18-24 h



Worldwide Recognition



40 years Experience, Specialization and Know-How



Gain Flexibility Using dehydrated media



Intense Chromogenic Colours

Ask your local distributor for more information

www.CHROMagar.com

Manufacturer: CHROMagar - 4 place du 18 juin 1940 75006 Paris - France CHROMagar@CHROMagar.com www.CHROMagar.com
For more information about our products, please refer to our website / Technical Documents.