WORLD CLASS QUALITY

HiCrome™

Single Streak Rapid Differentiation Series

Clinical Testing

COLOURS that Identify the Pathogens

HIMEDIA®
For Life is Precious

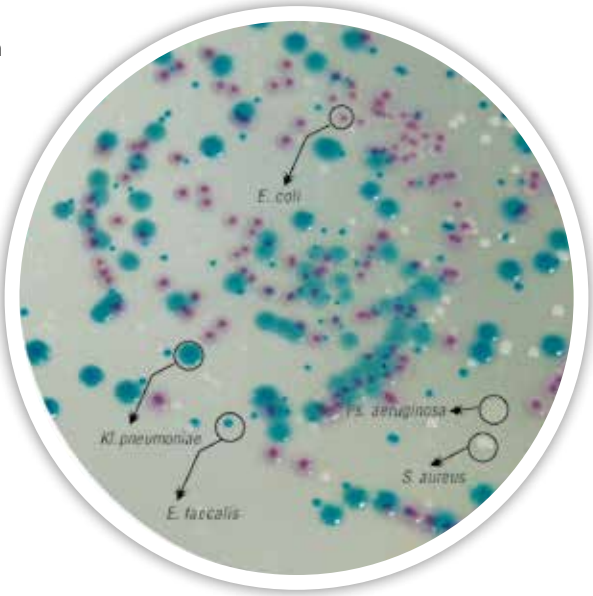
HiMediaLaboratories™
himedialabs.com

Urinary Tract Infection

HiCrome™ UTI Agar, Modified / HiCrome™ UTI Selective Agar M1418 / M1505

A chromogenic differential medium for identification, differentiation and confirmation of enteric bacteria from specimens such as urine which may contain large number of *Proteus* species as well as potentially pathogenic gram-positive organisms.

- Chromogenic mixture to detect presence of β-glucosidase and β-D-galactosidase enzymes.
- One chromogenic substrate is cleaved by β-glucosidase possessed by Enterococci resulting in formation of blue colonies.
- *Escherichia coli* produce purple-magenta colonies due to β-D-galactosidase which cleaves the other chromogenic substrate.
- Rich source of phenylalanine and tryptophan provides an indication of tryptophan deaminase activity by *Proteus* species, *Morganella* species and *Providencia* species.



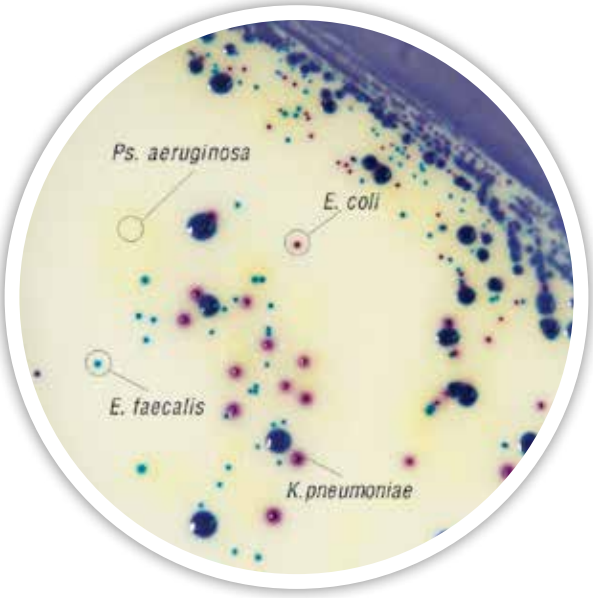
Escherichia coli	purple-magenta
Enterococcus faecalis	blue-blue green (small)
Klebsiella pneumonia	blue to purple, mucoid
Proteus mirabilis	light brown
Pseudomonas aeruginosa	colourless (greenish pigment may be observed)
*Staphylococcus aureus**	golden yellow

* inhibited on selective media (M1505)

HiCrome™ UTI Agar M1353 / M1353R

Recommended for presumptive identification and confirmation of microorganisms mainly causing urinary tract infections, can also be used for testing water, food, environmental and other clinical samples.

- It has broader application as a general nutrient agar for isolation of various microorganisms.
- It facilitates the identification on basis of different contrasted colony colours produced by enzymes with two chromogenic substrate.
- Enterococci possess β-glucosidase giving blue coloured colonies
- *E.coli* produce purple-magenta colonies due to β-D-galactosidase which cleaves the other chromogenic substrate.
- M1353R opaque background helps in better visibility



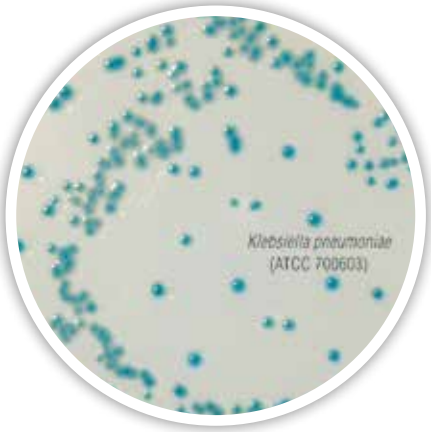
Escherichia coli	pink-purple
Enterococcus faecalis	blue-blue green (small)
Klebsiella pneumonia	blue to purple, mucoid
Proteus mirabilis	light brown
Pseudomonas aeruginosa	colourless (greenish pigment may be observed)
Staphylococcus aureus	golden yellow

ESBL/Carbapenem Resistant *Enterobacteriaceae*

HiCrome™ ESBL Agar Base M1829

Recommended for selective isolation of Extended Spectrum β-lactamase producing *Enterobacteriaceae*.

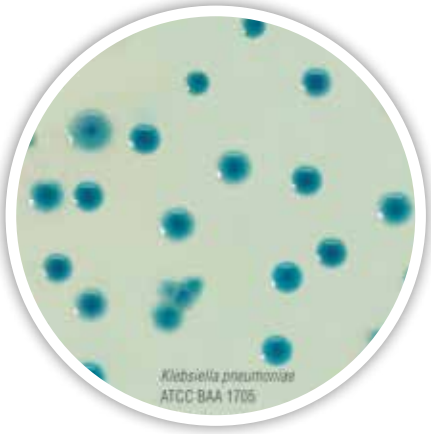
- Medium supports rapid growth with detection in 18-24 hours.
- Selective supplement helps in selective growth of ESBL producing *Enterobacteriaceae*
- Distinct colours allows proper differentiation
  Esherichia coli - pink to purple
  Resistant KESC group - bluish green
  Proteus, Morganella and *Providencia* - colourless to light brown



HiCrome™ KPC Agar Base M1831

Recommended for detection of gram negative bacteria with a reduced susceptibility to carbapenem agents.

- Medium supports rapid growth with detection in 18-24 hours.
- Selective supplement helps in selective growth of Carbapenem resistant strains.
- Distinct colours allows proper differentiation
  Esherichia coli - pink to purple (confirmation with indole)
  Citrobacter freundii - pink to magenta
  Carbapenem resistant *Klebsiella*, *Enterobacter*, *Serratia* spp. - bluish green
  Acinetobacter and *Salmonella*- smooth colourless colonies
  Pseudomonas species - colourless to light yellowish green translucent colonies with wrinkled edges.

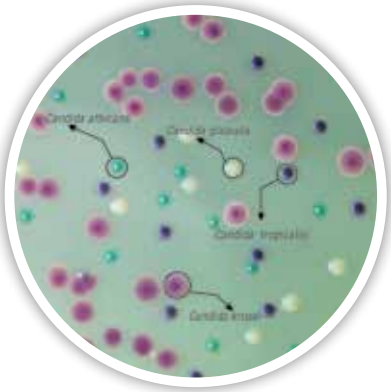


Yeast and moulds

HiCrome™ Candida Differential Agar/ Base Modified M1297A/M1456A

Recommended for rapid isolation and identification of *Candida* species from mixed cultures.

- Medium supports growth with detection in 40-48 hours.
- Chromogenic mixture helps differentiate between *Candida* species
- Chloramphenicol and Selective supplement (in M1456A) helps in inhibiting bacterial growth.
  Candida albicans - green
  Candida tropicalis - blue -purple
  Candida krusei - purple, fuzzy
  Candida glabrata - cream to white
  Candida parapsilosis- cream to white (may have mauve centre)



HiCrome™ Candida Differential Agar Base M1297AR

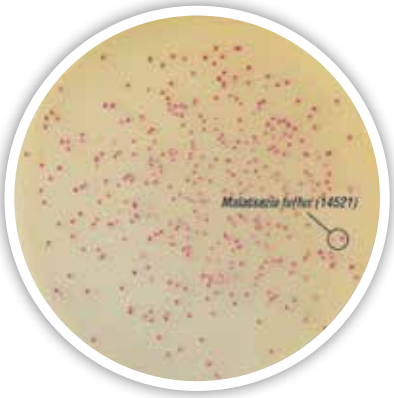
Recommended for rapid isolation and identification of *Candida* species from mixed cultures.

- Medium supports growth with detection in 40-48 hours.
- Chromogenic mixture helps differentiate between *Candida* species
- Chromogenic mixture contains X-NAG which detects hexosaminidase activity and BCIP which detects phosphatase activity.
- Opaque background for better visibility.
- Selective supplement helps in inhibiting bacterial growth.
  Candida albicans - light green smooth
  Candida tropicalis - blue - metallic blue raised
  Candida krusei- pink -purple, fuzzy
  Candida glabrata- cream to white
  Candida kefyr - cream to white
  Candida parapsilosis- cream to white (may have mauve centre)

HiCrome™ Malassezia Agar (Twin Pack) M1985

Recommended for isolation, cultivation and identification of *Malassezia fufur*.

- Medium supports growth with detection in 48-72 hours.
- Tween 80, Glycerol monooleate and fatty acids helps support luxuriant growth of *Malassezia fufur*.
  Malassezia furfur- mauve, small
  Candida albicans - light green
  Candida tropicalis - metallic blue raised
  Candida krusei- pink -purple, fuzzy
  Candida glabrata- cream to white



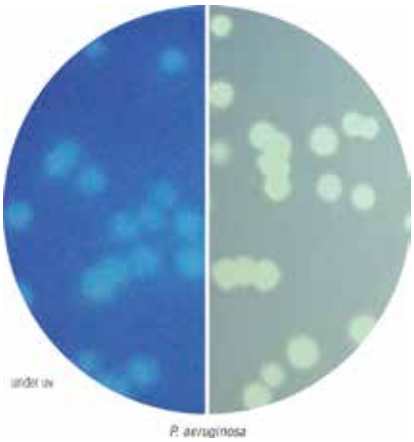
Clinical Testing

Pseudomonas

HiFluoro™ Pseudomonas Agar Base M1469

Recommended for selective isolation of *Pseudomonas aeruginosa* from non-clinical and clinical samples by fluorogenic method.

- Rapid detection in 18-24 hours
- Fluorogenic compound is specifically cleaved by *Pseudomonas* to give fluorescence under uv
- Cetrimide - inhibits accompanying microflora other than *Pseudomonas*
- Salts impart pigmentation

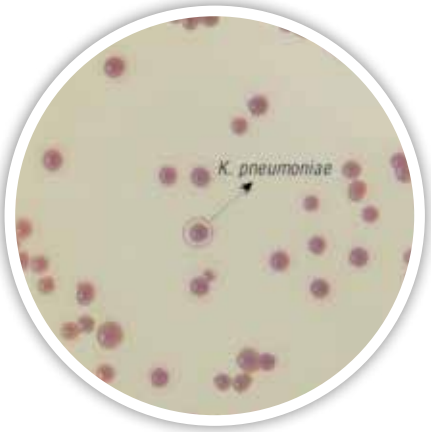


Klebsiella

HiCrome™ Klebsiella Selective Agar Base M1573

Recommended for detection and isolation of *Klebsiella* from water and clinical samples.

- Selective medium for the growth of *Klebsiella*
- Chromogenic substrate is cleaved by *Klebsiella* to give purple-magenta coloured mucoid colonies
- Sodium lauryl sulphate and Bile salts mixture - inhibits gram positive organisms.
- Selective supplement (carbenicillin) inhibits other accompanying microflora.



Acinetobacter

HiCrome™ Acinetobacter Agar Base M1938

Recommended for detection of *Acinetobacter* species from clinical specimen.

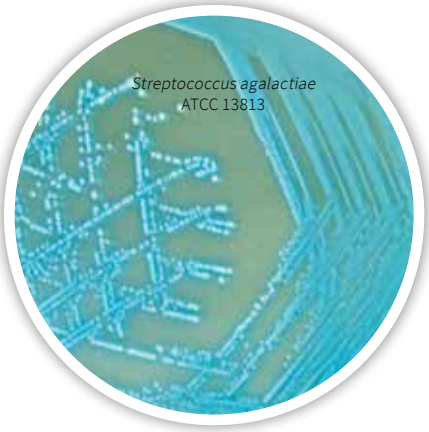
- Medium supports growth with detection in 24-48 hours.
- Chromogenic mixture imparts light purple colour to *Acinetobacter* (MDR)
- Selective supplement helps in selective growth.

Group B Streptococci

HiCrome™ Strep B Selective Agar Base M1840

Recommended for the selective isolation of Group B *Streptococcus* from clinical samples.

- Medium to support growth in 18-24 hours
- Chromogenic substrate is cleaved by β-glucosidase enzyme that imparts blue colour to Group B *Streptococcus*
- Selective supplement - inhibits accompanying microflora
- Opaque background for better visibility



HiCrome™ Strep B Selective Agar Base, Modified M1966

Recommended for the selective isolation of Group B *Streptococcus* from clinical samples.

- Chromogenic substrate is cleaved by group B-Streptococccci resulting in purple coloured colonies.
- Other Streptococci give bluish green to green coloured colonies with yellow background due to fermentation indicated by phenol red.
- Selective supplements - inhibits other microorganisms.

Staphylococcus aureus (MRSA/MRSE)

HiCrome™ MeReSa Agar Base M1674

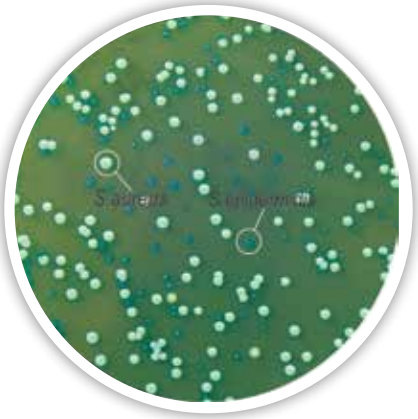
Recommended for the isolation and selective identification of Methicillin Resistant *Staphylococcus aureus* (MRSA) from clinical isolates.

- The chromogenic mixture incorporated in the medium is specifically cleaved by *Staphylococcus aureus* (MRSA) to give bluish green coloured colonies.
- *Staphylococcus aureus* (MSSA) and other accompanying flora - inhibited by selective supplement (Methicillin and Cefoxitin)

HiCrome™ MRSA Agar Base, Modified M1953

Recommended for the differentiation and identification of MRSA and MRSE *Staphylococcus* species from clinical isolates.

- The chromogenic mixture incorporated in the medium is specifically cleaved by *Staphylococcus*
- *Staphylococcus aureus* (MRSA) - green
- *Staphylococcus epidermidis* (MRSE)-blue
- *Staphylococcus aureus* (MSSA) and other accompanying flora - inhibited by Inhibitor mixture and selective supplement (Methicillin and Cefoxitin)



HiCrome™ Rapid MRSA Agar Base M1974

It is recommended for rapid isolation and identification of Methicillin Resistant *Staphylococcus aureus* (MRSA)from clinical isolates

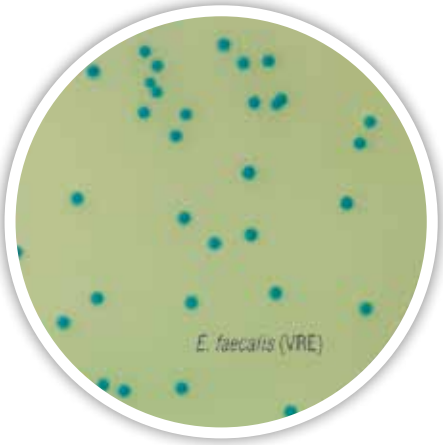
- Rapid detection in 18-24 hours
- The chromogenic mixture incorporated in the medium is specifically cleaved by *Staphylococcus*. Carbohydrate fermentation is detected by phenol red indicator
- Methicillin Resistant *Staphylococcus aureus* (MRSA) - greenish yellow (Note: Green colour may develop after 48 hours)
- Methicillin Resistant *Staphylococcus epidermidis* (MRSE) - blue
- *Staphylococcus aureus* (MSSA) and other accompanying flora - inhibited by selective supplement.

Vancomycin Resistant Enterococci

HiCrome™ VRE Agar Base M1830

Recommended for the identification and differentiation of VRE from clinical samples.

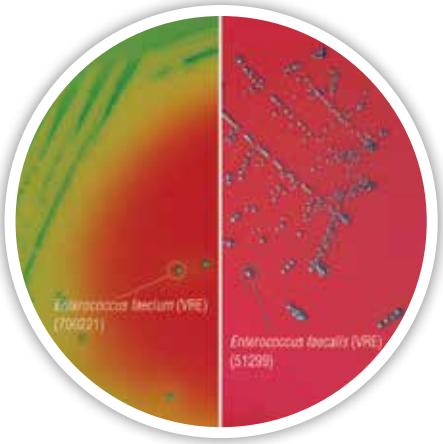
- Medium to support growth in 24-48 hours
- Chromogenic substrate is cleaved by β-glucosidase enzyme which imparts bluish green colour to VRE species
- Selective supplement - inhibits VSE and other gram positive organisms
- Opaque background for better visibility



HiCrome™ VRE Agar Base, Modified M1925

Recommended for the identification and differentiation of Vancomycin Resistant *Enterococcus faecalis* and *Enterococcus faecium* from clinical samples.

- Medium to support growth in 24-48 hours
- Chromogenic substrate is cleaved by β-glucosidase, enzyme which imparts blue green colour to *Enterococcus* species
- Presence of arabinose and phenol red aids to differentiate between *Enterococcus faecalis* and *Enterococcus faecium*
- *E.faecalis*(VRE) - blue colour and *E.faecium* (VRE) - green w/yellow background
- Selective supplement - inhibits VSE and other gram positive organisms



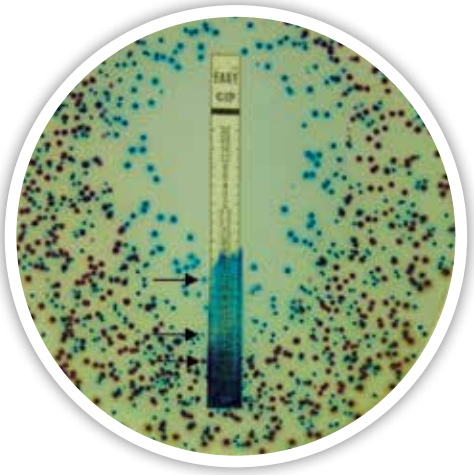
Clinical Testing

HiCrome™ Mueller Hinton Agar M2010

Recommended for differentiation of organisms from clinical samples based on chromogenic identification and determination of susceptibility of microorganisms to antimicrobial agents.

- Traditional method takes 48 hours for organism identification and antimicrobial susceptibility
- This medium gives rapid and reliable results in 24 hours
- Chromogenic differentiation of various Urinary Tract pathogens
- Simultaneous detection of Antimicrobial susceptibility
- Can be employed in clinical testing of urinary tract infection

Escherichia coli	purple-magenta
Enterococcus faecalis	blue-blue green
Klebsiella or Enterobacter	metallic blue
Proteus mirabilis	light brown
Pseudomonas aeruginosa	colourless (greenish pigment may be observed)
Staphylococcus aureus	golden yellow



HiCrome™ Mueller Hinton Agar (For Antifungal Testing) M2067

Recommended for the chromogenic differentiation of yeast from clinical samples and determination of susceptibility to antifungal agents.

- Identification of organisms and antifungal susceptibility takes 96 hrs with traditional method
- The medium gives rapid and reliable results in 48 hours.
- Chromogenic differentiation of yeast cells along with antifungal susceptibility
- Can be employed in clinical testing

Candida albicans	*Green*
Candida tropicalis	*Blue*
Candida krusei	*Purple*
Candida parapsilosis	*Cream*
Saccharomyces cerevisiae	*Cream*

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