World class quality

HiCrome™

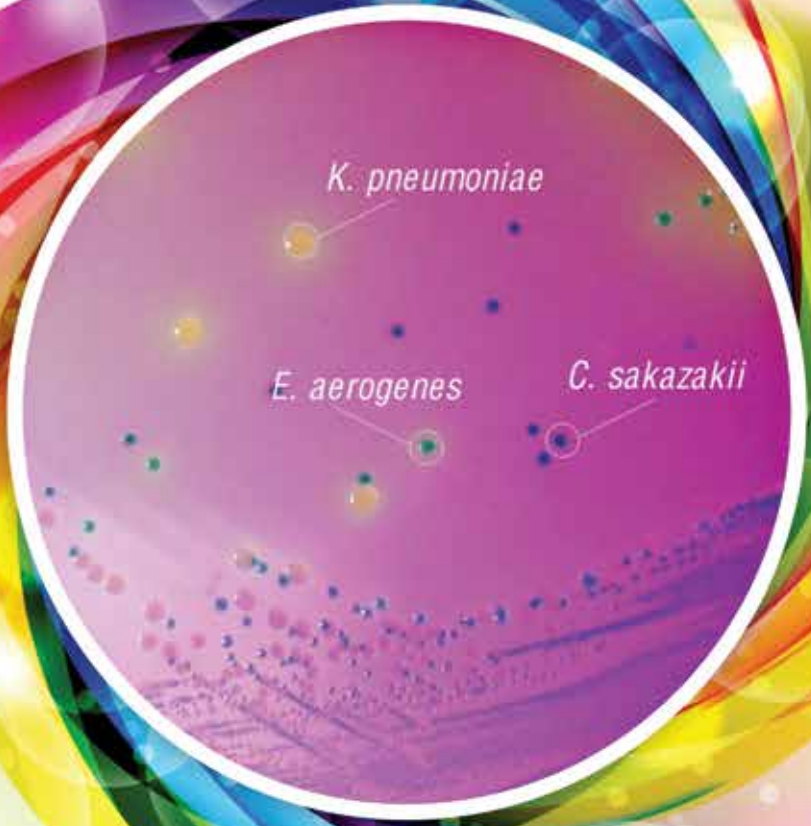
Single Streak Rapid Differentiation Series

Food & Environmental Testing

Single streak

24hr

Results



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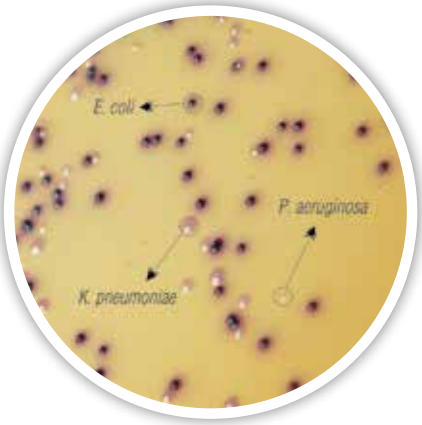
Food & Environmental Testing

E.coli and Total Coliforms

HiCrome™ ECC Agar M1293

Recommended for presumptive identification of *Escherichia coli* and other coliforms in food and environmental samples.

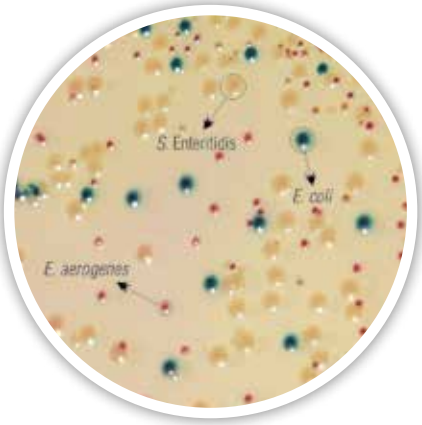
- Two chromogens to detect presence of β-glucuronidase and β-galactosidase enzymes
- Enzyme β-glucuronidase produced by *Escherichia coli* - give blue to purple coloured colonies
- Enzyme galactosidase produced by other coliforms imparts - rose-pink
- *Pseudomonas*- colourless



HiCrome™ ECC Selective Agar Base/Modified M1294/M2056

Recommended for presumptive identification of *Escherichia coli* and other coliforms in food and water samples.

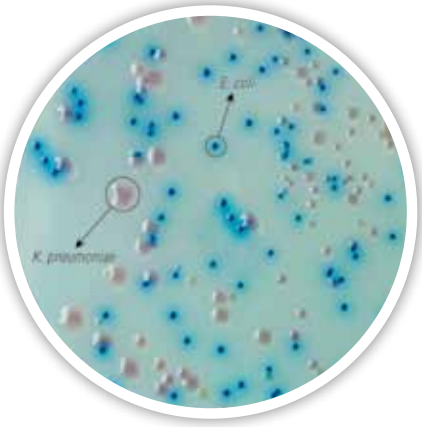
- Two chromogens to detect presence of β-glucuronidase and β-galactosidase enzymes
- β-glucuronidase produced by *Escherichia coli* cleaves X-glucuronide to give-dark blue to violet
- Other coliforms cleaves other chromogen to form - Salmon to red coloured colonies
- *Salmonella* - colourless
- Tergitol 7 and Selective supplement (M1294) & Sodium lauryl sulphate (M2056) for selectivity - Gram positive bacteria inhibited
- L-Tryptophan added to improve indole detection



HiCrome™ Coliform Agar w/SLS /Modified M1300/ M1832

Recommended for simultaneous detection of *Escherichia coli* and total coliforms in food, milk, dairy and water samples

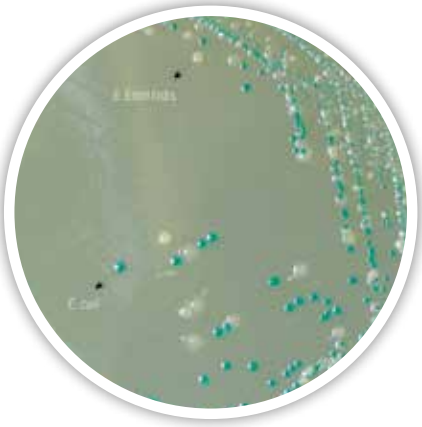
- Two chromogens to detect presence of β-glucuronidase and β-galactosidase enzymes
- β-glucuronidase produced by *Escherichia coli*- cleaves X-glucuronide to give dark blue to violet
- L-Tryptophan added to improve indole detection
- β-galactosidase enzyme produced by other coliforms - Salmon to red coloured colonies
- *Salmonella /Shigella* species - colourless
- Sodium lauryl sulphate for selectivity - Gram positive bacteria inhibited
- M1300 has pH of 6.8 ± 0.2 while M1832 has pH of 7.2 ± 0.2 (recommended for thermotolerant *E.coli*)



HiCrome™ E.coli Agar M1295/M1295I

Recommended for detection and enumeration of *Escherichia coli* in food samples.

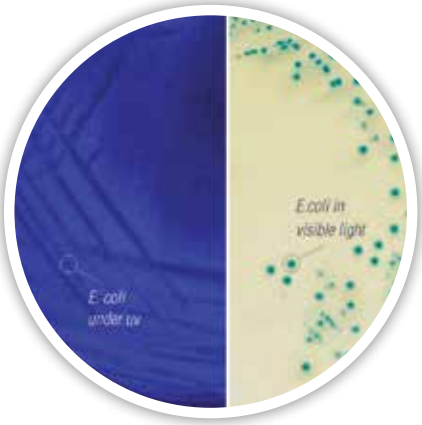
- M1295I - Formulation is as per the specifications laid down in ISO 166492
- Presence of X-glucuronide to detect β-glucuronidase enzyme produced by *Escherichia coli* - to give bluish green coloured colonies.
- Others - colourless
- Bile salts mixture for selectivity - Gram positive bacteria inhibited



HiCrome™ ECD Agar w/MUG M1488

Recommended for detection of presence and absence of *Escherichia coli* food samples and water.

- Combination of chromogenic and fluorogenic substrate to detect presence of β-glucuronidase.
- *Escherichia coli*-blue-green, positive β-glucuronidase and positive fluorescence under uv
- Other coliforms - colourless, negative β-glucuronidase and negative fluorescence under uv
- Bile salts mixture for selectivity - Gram positive bacteria inhibited



EC 0157:H7

HiCrome™ MacConkey Sorbitol Agar Base M1340

Recommended for selective isolation of *Escherichia coli* O157:H7 from food and animal feeding stuff.

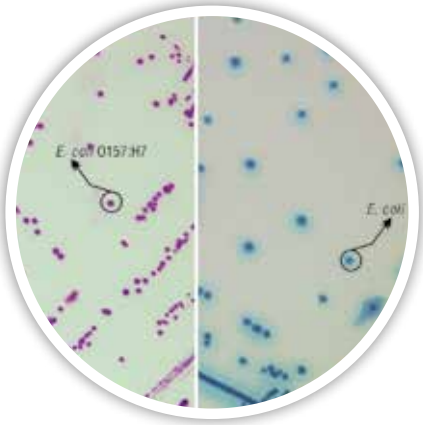
- Presence of BC Indicator to detect β-glucuronidase enzyme.
- Sorbitol is the fermentable carbohydrate with neutral red as an indicator.
- *Escherichia coli*- blue-green
- *Escherichia coli* O157:H7 - colourless
- *Klebsiella* - pink - red
- Bile salt mixture for selectivity - Gram positive bacteria inhibited

Food & Environmental Testing

HiCrome™ EC0157:H7 Agar, Modified M1574A

Recommended for selective isolation of *Escherichia coli* O157:H7 from food and environmental samples

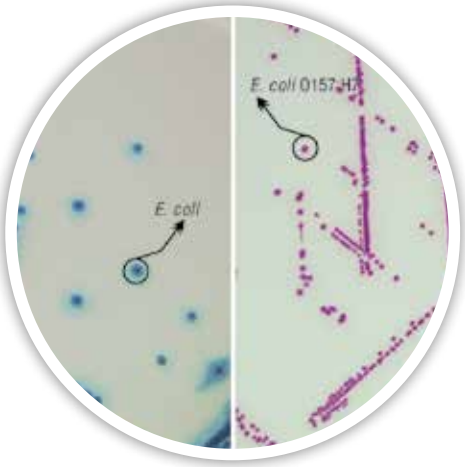
- Mixture of chromogenic substrate to differentiate between *Escherichia coli* and *Escherichia coli* 0157:H7. Sorbitol is the fermentable carbohydrate.
- *Escherichia coli*- bluish green
- *Escherichia coli* O157:H7 - dark purple -magenta
- *Klebsiella* - colourless to mauve, mucoid
- *Pseudomonas* - colourless
- Sodium lauryl sulphate and bile salt mixture for selectivity - Gram positive bacteria inhibited
- FD052 - inhibits *Aeromonas* and *Providencia* species



HiCrome™ EC 0157:H7 Selective Agar Base, Modified M1575A

Recommended for selective isolation of *Escherichia coli* O157:H7 from food samples.

- Mixture of chromogenic substrate to differentiate between *Escherichia coli* and *Escherichia coli* 0157:H7. Sorbitol is the fermentable carbohydrate.
- *Escherichia coli*- bluish green
- *Escherichia coli* O157:H7 - dark purple - magenta
- *Pseudomonas* - colourless
- Sodium lauryl sulphate, bile salt mixture and selective supplement for selectivity - Gram positive bacteria inhibited



HiCrome™ Enrichment Broth Base for EC 0157:H7 M1598

Recommended for selective differentiation of *Escherichia coli* O157:H7 from food and environmental samples

- Mixture of chromogenic substrate to detect β-glucuronidase and β-D-galactosidase enzyme. Sorbitol is the fermentable carbohydrate.
- #*Escherichia coli*- blue may show slight precipitation of growth
- *Escherichia coli* O157:H7 - dark purple -magenta
- #*Cronobacter sakazakii* - white, may show slight precipitation of growth
- *Klebsiella* - bluish green
- *Salmonella* Enteritidis- light green may show slight precipitation of growth
- #*Shigella flexneri*- colourless
- Bile salt mixture and selective supplement for selectivity - Gram positive bacteria inhibited

Key :# -partial to complete inhibition on addition of supplement

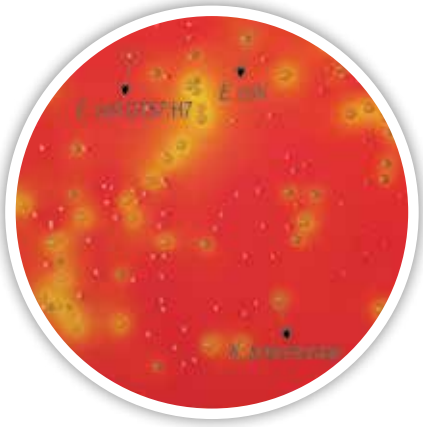
1. Control
2. *E. coli* 0157:H7 (NCTC 12900)
3. *Escherichia coli* (ATCC 25922)
4. *Cronobacter sakazakii* (ATCC 12868)
5. *Klebsiella pneumoniae* (ATCC 13883)

Food & Environmental Testing

HiCrome™ M-Modified EC 0157:H7 Selective Agar Base M1862

Recommended for selective differentiation of *Escherichia coli* O157:H7 from food samples by membrane filtration technique

- Based on three biochemical reactions - presence of β - glucuronidase, lysine decarboxylase (positive for typical EHEC O157 strains) and sorbitol fermentation
- *Escherichia coli*- green
- *Escherichia coli* O157:H7 - pink
- *Klebsiella pneumoniae* - yellow
- Sodium deoxycholate and selective supplement for selectivity - Gram positive bacteria inhibited



*Cronobacter sakazakii

HiCrome™ Enterobacter sakazakii Agar M1577

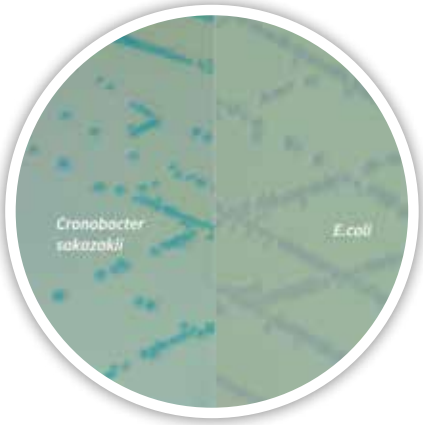
Recommended for selective isolation and detection of **Cronobacter sakazakii* from food, milk and dairy products.

- Chromogenic mixture to detect presence of β-glucosidase enzyme possessed by *Enterobacter* species resulting in blue green colonies.
- *Escherichia coli* - yellow
- #*Klebsiella aerogenes* - green
- **Cronobacter sakazakii* - blue
- *Klebsiella pneumoniae* - bluish green
- Sodium deoxycholate for selectivity - Gram positive bacteria inhibited

HiCrome™ Enterobacter sakazakii Agar, Modified M1641

Recommended for selective isolation and detection of **Cronobacter sakazakii* from food, milk and dairy products

- Formulation is as per the specifications laid down in ISO Draft ISO/TS 22964, 2006 (E)
- Chromogenic substrate to detect presence of β-glucosidase enzyme prossessed by *Enterobacter* species resulting in blue green colonies
- *Escherichia coli*- colourless
- #*Klebsiella aerogenes* - colourless with blue centre
- **Cronobacter sakazakii* - blue-green
- Sodium deoxycholate for selectivity - Gram positive bacteria inhibited



* Formerly known as *Enterobacter sakazakii*
# Formerly known as *Enterobacter aerogenes*

HiCrome™ Cronobacter Isolation Agar (CCI Agar) M2062I

Recommended for selective isolation and detection of △*Cronobacter sakazakii* from food samples.

- Recommended for the isolation of *Cronobacter* from food samples
- The composition and specifications are as per the specifications laid down in ISO/TS 22964 :2017
- Selective and inhibits gram positive bacteria.
- △*Cronobacter sakazakii* ATCC 29544 (00214*) and *Cronobacter muytjensii* ATCC 51329 (00213*) - blue green colonies
- *Enterobacter cloacae* ATCC 13047 (00083*) - colourless without green or blue green centre

(* Corresponding WDCM numbers)

△ Formerly known as *Enterobacter sakazakii*

Citrate fermenting Lactic Acid Bacteria

HiCrome™ Nickels and Leesment Agar Base M1712

Recommended for enumeration of citrate fermenting lactic acid bacteria from milk, milk products and mesophilic starter cultures.

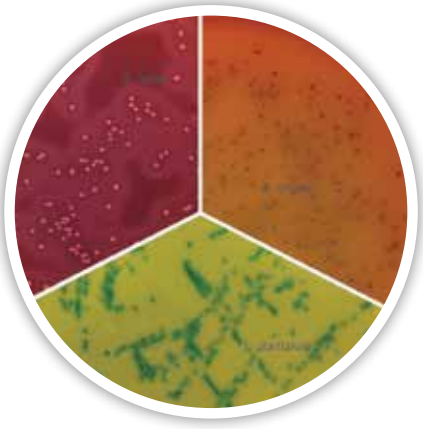
- Formulation is as per the specifications laid down in ISO 17792
- Medium supports growth with detection in 48-72 hours.
- Chromogenic substrate (X-gal) helps differentiate between *Lactobacillus lactis* subsp. *lactis* and *Leuconostoc* species
- Selective supplement helps inhibit accompanying microflora
- CMC provides opaque background for better visibilty.
- Tricalcium dicitrate tetrahydrate helps detect citrate fermenting lactic acid bacteria
  Lactobacillus lactis subsp. *lactis* biovar diacetylactis - white with a clear zone
  Lactobacillus lactis subsp. *lactis* - white without a clear zone
  Lactobacillus lactis subsp. *cremoris*- white without a clear zone
  Leuconostoc mesenteroides- blue without a clear zone

HiCrome™ Bifidobacterium Agar M1960

Recommended for differentiation of *Bifidobacterium* and *Lactobacillus* species.

- Medium supports growth with detection in 48 hours.
- The indicator system in the chromogenic mixture helps differentiate between *Bifidobacterium* and *Lactobacillus* species
- Milk protein helps to detect casein activity

  Bifidobacterium infantis - dark blue -bluish green
  Bifidobacterium breve - red-pink with halo zone
  Lactobacillus plantarum - green colonies with hazy background
  Lactobacillus fermentum - pink without halo zone



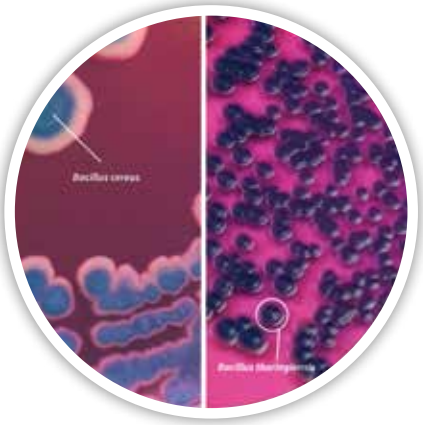
Bacillus species

HiCrome™ Bacillus Agar M1651

Recommended for isolation and differentiation between *Bacillus* species.

- Chromogenic mixture to detect presence of β-glucosidase
- Colour differentiation for proper identification between species
- Mannitol is the fermentable carbohydrate with Phenol red as an indicator
- Selective supplement further selects *Bacillus cereus* and *Bacillus thuringiensis* and inhibits other *Bacillus*

  Bacillus cereus- light blue w/pink halo, large flat with blue centre
  Bacillus subtilis - yellowish green -green
  Bacillus thuringiensis - light blue, large, flat with irregular margins
  Bacillus megaterium- yellow, mucoid
  Bacillus coagulans - pink, small raised colonies
  Bacillus pumilis - light green -green



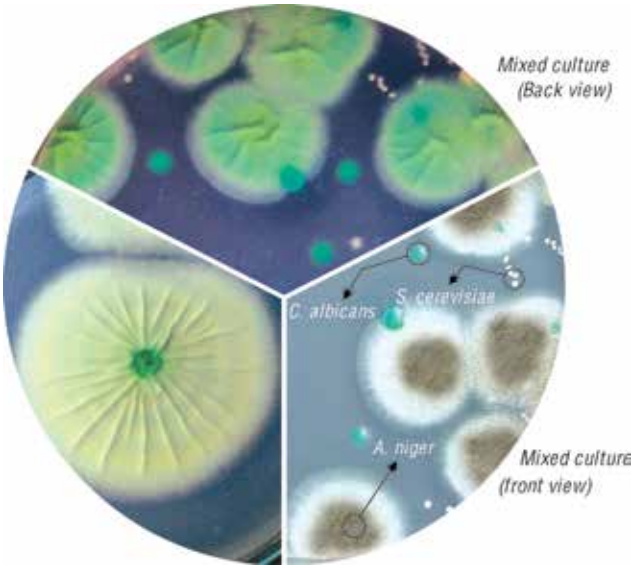
Yeasts and moulds

HiCrome™ OGYE Agar Base M1467

Recommended for isolation and enumeration of yeasts and moulds from food, milk and milk products.

- Medium supports growth with detection in 48 hours.
- Chromogenic mixture helps differentiate between *C.albicans, S.cerevisiae* and *Aspergillus*
- Low pH and Oxytetracycline (Selective supplement) helps in inhibiting bacterial growth.

  Candida albicans - green
  Saccharomyces cerevisiae - colourless
  Aspergillus brasiliensis- light blue with black spores.



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