



HiCrome™ Candida Differential Agar Base, Modified

M1456A

Intended use

HiCrome™ Candida Differential Agar Base, Modified is recommended for the rapid isolation and identification of *Candida* species in mixed cultures from clinical and non-clinical specimens.

Composition**

| Ingredients | Gms / Litre |
|---------------------|-------------|
| Peptone | 5.000 |
| Malt extract | 3.000 |
| Yeast extract | 3.000 |
| Glucose | 10.000 |
| Chloramphenicol | 0.050 |
| Chromogenic mixture | 3.000 |
| Agar | 18.000 |
| Final pH (at 25°C) | 7.2±0.2 |

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 21.02 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and aseptically add rehydrated contents of 1 vial of HiCrome Candida Selective Supplement (FD192). Mix well and pour into sterile Petri plates.

Principle And Interpretation

Perry and Miller (1) reported that *Candida albicans* produces an enzyme beta-N-acetyl- galactosaminidase and according to Rousselle et al (2) incorporation of chromogenic or fluorogenic hexosaminidase substrates into the growth medium helps in identification of *C.albicans* isolates directly on primary isolation. HiCrome™ Candida Differential Agar, Modified is a selective and differential medium, which facilitates rapid isolation of yeasts from mixed cultures and allows differentiation of *Candida* species namely *C.albicans*, *C.krusei*, *C.tropicalis* and *C.glabrata* on the basis of colouration and colony morphology. On this medium results are obtained within 48 hours and it is useful for the rapid and presumptive identification of common yeasts in Mycology and Clinical Microbiology Laboratory.

Peptone and yeast extract provides nitrogenous, carbonaceous compounds and other essential growth nutrients. Phosphate buffers the medium well. Chloramphenicol suppresses the accompanying bacterial flora. *C.albicans* appear as light green coloured smooth colonies, *C.tropicalis* appear as blue to metallic blue coloured raised colonies. *C.glabrata* colonies appear as cream to white smooth colonies, while *C.krusei* appear as purple fuzzy colonies.

Type of specimen

Clinical samples - Blood ; Food and dairy samples

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,6).

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (3,4).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets

Limitations :

Slight variation in colour for isolates may be observed as the reaction is based on the enzyme present in organism.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Please refer disclaimer Overleaf.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.8% Agar gel

Colour and Clarity of prepared medium

Light amber coloured, clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 4.20% w/v aqueous solution at 25°C. pH : 7.2±0.2

pH

7.00-7.40

Cultural Response

M1456A: Cultural characteristics observed with added HiCrome Candida Selective Supplement (FD192), after an incubation at 25-30°C for 40-48 hours.

| Organism | Inoculum (CFU) | Growth | Recovery | Colour of Colony |
|---|------------------|----------------|----------|------------------|
| <i>Candida albicans</i> ATCC 10231 | 50-100 | good-luxuriant | ≥50% | light green |
| <i>Candida glabrata</i> ATCC 15126 | 50-100 | good-luxuriant | ≥50% | cream to white |
| <i>Candida krusei</i> ATCC 24408 | 50-100 | good-luxuriant | ≥50% | purple, fuzzy |
| <i>Candida tropicalis</i> ATCC 750 | 50-100 | good-luxuriant | ≥50% | blue to purple |
| <i>Escherichia coli</i> ATCC 25922 (00013*) | ≥10 ³ | inhibited | 0% | |
| <i>Staphylococcus aureus</i> ATCC 25923 | ≥10 ³ | inhibited | 0% | |

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

Store between 2-8°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (5,6).

Reference

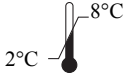
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IVD

In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged

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