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# TECHNICAL DATA SHEET

# OXYcrome Chromogenic Candida Differential Agar Base

## Principle

**Candida chromogenic agar is selective differential medium for the rapid isolation and identification of clinically important Candida species. The media is composed of special peptone, yeast extract, Dipotassium phosphate, chloramphenicol, chromogenic mixture and agar. Special peptone and yeast extract provide nitrogenous substances, carbon and other essential growth nutrients for the organisms. Chloramphenicol provides selectivity to the candida special and inhibits bacteria other than candida. Chromogenic mixture aids in differential of candida species.**

**Use: For selective and differential medium for rapid isolation and identification of Candida species from mixed cultures**

## Contents*

| Ingredients | Gram/Liter |
|---|---|
| Special peptone | 15.000 |
| Yeast extract | 4.000 |
| Dipotassium phosphate | 1.000 |
| chloramphenicol | 0.500 |
| Chromogenic mixture | 9.500 |
| Agar | 15.000 |
| pH at 25˚C | 6.3 ±0.2 |

*** Formula adjusted for optimum performance and parameters**

**Directions: Dissolve 45.00 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. DO NOT OVERHEAT. Cool to 45-50°C. Mix well and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.**

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## Precautions to be taken

**All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.**

## Performance and Evaluation

**The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.**

## Quality Control

| | |
|---|---|
| **Appearance** | **Light beige colored, free-flowing, homogeneous** |
| **Reaction of 4.50% solution** | **6.3 ±0.2 at 25 ˚C** |
| **pH** | **6.10- 6.50** |
| **Gelling** | **Firm comparable with 1.5% agar gel** |
| **Color and clarity of ready medium** | **Light amber, clear opalescent gel** |
| **Growth Promotion Properties** | **Best at ≤ 100 CFU at 32-37 ºC for 18-72 h** |
| **Indicative Properties** | **Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h** |
| **Negative Control** | **Performed using sterile distilled water** |

**Different Microbial Response: Prepare media as per the label directions. Inoculate (Inoculum 50-100 CFU) and incubate at 30-35ºC for 24-48 hours.**

| Organism | ATCC | Growth | Recovery | Colony color |
|---|---|---|---|---|
| *Candida albicans* | 10231 | Luxurious | ≥ 60% | Light green |
| *Candida glabrata* | 15126 | Luxurious | ≥ 60% | Cream to white |
| *Candida tropicalis* | 750 | Luxurious | ≥ 60% | Blue to purple |
| *Escherichia coli* | 8739 | Inhibited | -- | -- |

**Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.**

**Note: Sterilize media immediately after reconstitution.**

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**Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.**

## Reference

1. ***Perry J. L. and Miller G. R., (1987), J. Clin. Microbiol., 25: 2424 -2425.***
2. ***Rousselle P., Freydiere A., Couillerot P., de Montclos H. and GilleY., (1994), J. Clin. Microbiol. 32:3034-3036***

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