

## HiCombi™ Dual Performance Fungal Medium Kit

LQ034A

### Intended use

Recommended for the detection of yeasts and moulds from pathological specimens. Combination of solid (20 ml) and liquid (40 ml) media in single bottle. For fungal selectivity, CC supplement, Modified (FD169B) is recommended. (Kit contains 10 bottles and 10 vials of CC Supplement, Modified (FD169B)).

### Composition\*\*

Proprietary

### Directions

Label the ready to use LQ034A bottle. Remove the top seal of the cap. Disinfect the part of the rubber stopper which is now exposed. Transfer the sample immediately into the culture bottle by puncturing the rubber stopper with the needle. Venting: Use sterile venting needle (LA038). Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. Discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do not vent the bottle for anaerobic cultures. Incubate at 25-30°C for 24-72 hours and further for seven days. Recommended volume of blood to be tested in LQ034A: 3-5 ml (For Adult use)

### Principle And Interpretation

Fungi were among the first microorganisms recognized because some of the fruiting structures, such as the mushrooms, are large enough to be seen without a microscope. Fungi can be grouped simply on the basis of morphology as either yeasts or moulds (1). The medium provides an acidic environment and nutrients favorable for growth and metabolism of yeasts and moulds. It contains dextrose that provides energy source for the growth of microorganisms. and adjusted the pH close to neutral. The medium can be rendered selective for fungi by antibiotics such as Chloramphenicol and Cycloheximide, which inhibits some bacteria as well as some saprophytic and pathogenic fungi.

### Type of specimen

Clinical samples: Blood

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,3). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions

In Vitro diagnostic use only. For professional 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

1. Some wild type strains may show poor growth due to nutritional variations.
2. Further isolation and biochemical tests should be carried out for confirmation.

### 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.

### Quality Control

#### Appearance

Each kit contains

Part A: In a sterile glass bottle combination of broth and one agar coated surface.

Part B: White coloured powder,

Part C: 2ml 0.2N NaOH

#### Colour of Agar medium

Light to Medium Amber coloured media

#### Colour of liquid medium

Light Amber coloured solution

**Quantity of medium**

20ml of solid medium in glass bottle

40ml of liquid medium in glass bottle

**pH of Agar medium**

7.20- 7.60

**pH of liquid medium**

7.20- 7.60

**Sterility Check**

Passes release criteria

**Cultural response**

Cultural characteristics was observed after incubation at 25-30°C for 24 - 72 hours after addition of part B in liquid medium (rehydrated with part C) (further growth may be observed for 7 days)

Organism	Inoculum (CFU)	Growth in liquid medium	Growth on agar medium
<i>Candida albicans</i> ATCC 10231 (00054*)	50-100	Poor-good	Luxuriant
<i>Candida albicans</i> ATCC 2091 (00055*) #	50-100	Poor-good	Luxuriant
# <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	None-poor	Luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763 (00058*)	50-100	None-poor	Luxuriant
\$ <i>Saccharomyces kudriavzevii</i> ATCC 2601	50-100	None-poor	Luxuriant
## <i>Trichophyton interdigitale</i> ATCC 9533	50-100	Good	Luxuriant
<i>Trichophyton rubrum</i> ATCC 28191	50-100	Good	Luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	>=10 <sup>4</sup>	Inhibited	-

Key : (\*) Corresponding WDCM numbers.

## Formerly known as *Trichophyton mentagrophytes*

# Formerly known as *Aspergillus niger*

\$ Formerly known as *Saccharomyces cerevisiae*

**Storage and Shelf Life**

On receipt store between 2-8°C. 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 (2,3).

**Reference**

- Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
- Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

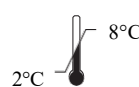
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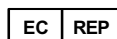
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**In vitro diagnostic  
medical device**



**Storage temperature**



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**CE Marking**



**Do not use if  
package is damaged**

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