HiCrome™ Malassezia Agar (Twin Pack) M1985

Intended use:

Recommended for the selective and differential isolation of *Malessezia furfur* from clinical samples.

Composition**

Ingredients	g / L
Part A	-
Peptone, special	30.000
Chromogenic mixture	1.400
Agar	15.000
Part B	-
Tween 40	10.000
Glycerol mono-oleate	5.000
Final pH (at 25°C)	5.80±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 15ml of fluid Part B in 1000 ml purified / distilled water. Add 46.4 grams of Part A. Mix well and heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C. Mix well and pour into sterile Petri plates .

Principle And Interpretation

Malassezia is a genus of fungi, naturally found on the skin surfaces of many animals, including humans. Media based on malt extract is appreciated by many microbiologists due to their richness and nutrient balance especially for the cultivation of fastidious microorganisms. With acidic pH, they are used for the isolation, cultivation and maintenance of yeast and moulds. *M. furfur* is a lipophilic yeast, therefore in vitro growth must be stimulated by natural oils or other fatty substances. Peptone special provides nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other essential growth nutrients. Low pH favors fungal growth and inhibits contaminating bacteria from test samples (1).Tween 40, Glycerol enhances the growth of *Malassezia* species as it is a lipophilic yeast

Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet. For heavily contaminated samples, the plate must be supplemented with inhibitory agents for inhibiting bacterial growth with lower pH.

Type of specimen

Clinical samples - Skin scrapings from the edges of the lesion

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. Slight variation in colour may be observed due to strain variation.
2. Some species may show poor growth due to nutritional variations.

Performance and Evaluation

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

Quality Control

Appearance

Part A : Cream to yellow homogeneous free flowing powder Part B: Colourless to pale yellow viscous solution

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured, opalescent gel with scum forms in Petri plates.

Reaction

Reaction of 4.64% w/v aqueous solution of Part A and 1.5% v/v of Part B at 25°C. pH : 5.80±0.2

pH

5.60-6.00

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 48-72 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Colour of colony
Malassezia furfur ATCC 14521	50-100	good-luxuriant	>=50%	mauve, small
Candida albicans ATCC 10231 (00054*)	50-100	good-luxuriant	>=50%	pale green to green
Candida glabrata ATCC 15126	50-100	good-luxuriant	>=50%	colourless
# Teunomyces krusei ATCC 24408	50-100	good-luxuriant	>=50%	purple
Candida tropicalis ATCC 750	50-100	good-luxuriant	>=50%	metallic blue

Key : (*) Corresponding WDCM numbers, # - Formerly known as *Candida krusei*

Storage and Shelf Life

Store between 15-25°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. 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

1. Murray PR, Baren EJ, Jorgensen JH, Pfaller MA, Yolken RH (editors) 2003, Manual of clinical Microbiology, 8th ed.,ASM, Washington, D.C.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. 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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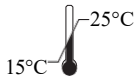
IVD ***In vitro*** **diagnostic medical device**



Storage temperature

EC REP CEpartner4U, Esdoornlaan 13,
3951DB Maarn, NL
www.cepartner4u.eu

CE **CE Marking**

Do not use if package is damaged

Disclaimer :

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