

REFERENCES

Σ Pack Size		Ordering References	
5000 mL =	250 Tests of 20 mL	MZ282	Weight: 281.5 g
25 L =	1250 Tests of 20 mL	MZ283-25	Weight: 1407.5 g

MEDIUM PURPOSE

Chromogenic medium for detection of *Malassezia* spp.

Malassezia is a fungi naturally found on the skin of many animals, and also on humans. On normal healthy skin it does not cause infections, but when the environment of the skin is altered, *Malassezia* species are able to cause several cutaneous diseases as severe dermatitis or otitis (inflammation of the skin or ears respectively).

In veterinary field, *Malassezia* is also the cause of various infections detected on animal skins (dermatitis).

COMPOSITION

The product is composed of a single powder medium.

Product	=	Pack
Total g/L		56.3 g/L
Composition g/L		Agar 15.0 Peptones and extracts 38.0 Chloramphenicol 0.5 Chromogenic mix 2.8
Aspect		Powder Form
STORAGE		15/30 °C
FINAL MEDIA pH		6.3 +/- 0.3

CAUTION :
formula to be supplemented
with Glycerol at 2 g/L and Tween 40
at 10 g/L (not provided in the kit).

Need some
Technical Documents?

Available
for download on
www.CHROMagar.com

- Certificate of Analysis (CoA) --> One per Lot
- Material Safety Data Sheet (MSDS)

PREPARATION (Calculation for 1 L)

Step 1 Preparation

- Disperse slowly 56.3 g of powder in 1 L of purified water.
 - Add 2 g of Glycerol and 10 g of Tween 40.
 - Stir until agar is well thickened.
 - Heat and bring to boil (100 °C) while swirling or stirring regularly.
- DO NOT HEAT TO MORE THAN 100 °C. DO NOT AUTOCLAVE AT 121 °C.

Warning 1: If using an autoclave, do so without pressure.

Advice 1: For the heating step, mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam).

Step 2 Pouring

- Cool in a water bath at 45-50 °C, swirling or stirring gently.
- Pour medium into sterile Petri dishes.
- Let it solidify and dry.

Storage

- Store in the dark before use.
- Prepared media plates can be kept for one day at room temperature.
- Plates can be stored for up to one month under refrigeration (2/8 °C) if properly prepared and protected from light and dehydration.

CHROMagar™ Malassezia

Instructions For Use
For Research Use Only (RUO).
Not for use in diagnostic procedures.

SPECIMEN COLLECTION AND HANDLING

CHROMagar™ Malassezia can be used with the following specimens: Skin and ears.

Use of transport devices approved for collection of such specimens is recommended.

MATERIAL REQUIRED BUT NOT PROVIDED

Standard microbiological laboratory material for culture media preparation, control, streaking, incubation and waste disposal.

INOCULATION

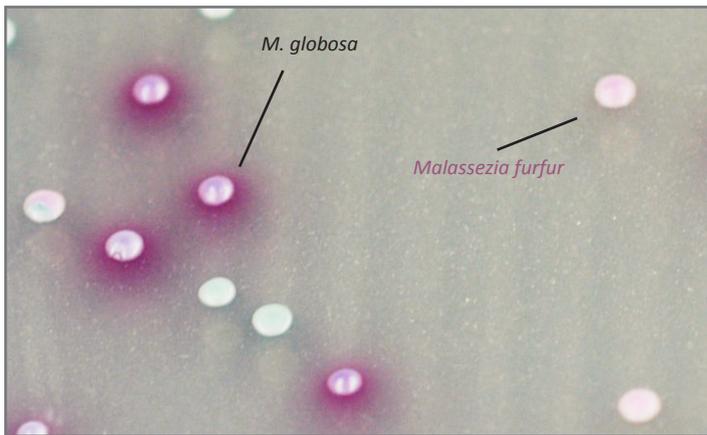
Related samples can be processed by direct streaking on the plate.

- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate.
- Incubate in aerobic conditions at 30-37 °C for 72 hours.

INTERPRETATION

Microorganism	Typical colony appearance
<i>Malassezia furfur</i>	→ large, pale pink and wrinkled
Other <i>Malassezia</i> species (including <i>M. globosa</i> & <i>M. restricta</i>)	→ mostly pink to purple
<i>C. albicans</i>	→ green
<i>C. tropicalis</i>	→ metallic blue + mauve halo
<i>C. krusei</i>	→ pink, fuzzy
Other yeast species	→ white to mauve

Typical colony appearance



The pictures shown are not contractual.

PERFORMANCE

In the following study, 377 *Malassezia* strains were tested and read after 4-7 days incubation at 32 °C.

	CHROMagar™ Malassezia
Sensitivity	> 97 % *
Specificity	> 71 % *

* Data obtained from the study «Revised Culture-based system for Identification of *Malassezia* species» Koichi Makimura et AL. 2007

LIMITATIONS AND COMPLEMENTARY TESTS

- Definite identification requires additional testing.

QUALITY CONTROL

Please perform Quality Control according to the use of the medium and the local QC regulations and norms.

Good preparation of the medium can be tested, isolating the following ATCC strains:

Microorganism	Typical colony appearance
<i>M. furfur</i> ATCC® 14521	→ mauve
<i>C. glabrata</i> ATCC® 2001	→ mauve
<i>C. tropicalis</i> ATCC® 1369	→ metallic blue + mauve halo
<i>C. albicans</i> ATCC® 10231	→ pale green
<i>C. krusei</i> ATCC® 14243	→ pink, fuzzy
<i>E. coli</i> ATCC® 25922	→ inhibited

WARNINGS AND PRECAUTIONS

- For Research Use Only (RUO). Not for use in diagnostic procedures.
- This laboratory product should be used only by trained personnel (healthcare professional, etc). Wear appropriate protective clothing, gloves and eye/face protection and handle appropriately with procedures and good laboratory practices.
- Use of the medium may be difficult for people who have problems recognising colours.
- For a good microbial detection, collection and transport of specimen should be well handled and adapted to the particular specimen according to good laboratory practices.
- Culture media should not be used as manufacturing material or components.
- Do not ingest or inhale the product.
- Do not use the product after the expiry date.
- Do not use the product if it show any evidence of contamination or any sign of deterioration.
- Do not use the product if the packaging is damaged.
- Any change or modification in the procedure may affect the results.
- Any change or modification of the required storage temperature may affect the performance of the product.
- Unappropriate storage may affect the shelf life of the product.

- Recap the bottles tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
- Reading and interpretation should be performed using isolated colonies.
- Some precipitates may be observed in the agar but these do not affect the performance of the product.
- Interpretation of the test results should be made taking into consideration colonial and microscopic morphology and if necessary, the results of any other tests performed.
- Laboratory, chemical or biohazardous wastes must be handled and discarded in accordance with all local and national regulations.
- For hazard and precaution recommendations related to some chemical components in this medium, please refer to the pictogram(s) mentioned on the labels. The Safety Data Sheet (SDS) is available on www.chromagar.com

DISPOSAL OF WASTE

After use, all plates and any other contaminated materials must be sterilized or disposed of by appropriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121 °C for at least 20 minutes.

LITERATURE REFERENCES

Please refer to our website page «Publications» for scientific publications about this particular product.

Web link: <http://www.chromagar.com/publication.php>

IFU/LABEL INDEX

-  Catalogue reference
-  Consult instructions for use
-  Quantity of powder sufficient for X liters of media
-  Expiry date
-  Required storage temperature
-  Store away from humidity
-  Protect from light
-  Manufacturer

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