

TECHNICAL DATA SHEET

CONTACT SABOURAUD WITH CHLORAMPHENICOL (SDCA) + NEUTRALIZERS

DETECTION AND ENUMERATION OF YEASTS AND MOLDS

1 INTENDED USE

Sabouraud with Chloramphenicol Agar, supplemented with neutralizers, is a ready-to-use media. The media is used for the detection and enumeration of microorganisms present on surfaces by impression on agar to control critical points in industry (examples: protected areas, microbiological monitoring programs of surfaces and industrial environments).

2 PRINCIPLE

The media forms a convex meniscus that allows the direct application of the agar on the control areas, whether on walls, floors, utensils or staff. The media contains several neutralizers that inhibit disinfectant residues that may be present on the surfaces to be monitored, in order to assess the levels of contamination before and after disinfection of the food chain environment.

The neutralizers are selected to inactivate residues of disinfectants that may be present on surfaces, such as aldehydes and phenols, quaternary ammoniums, oxidizing compounds.

Peptic meat peptone is the nitrogenous source of growth. Glucose is an energy source.

In addition, chloramphenicol, a thermostable antibiotic with a broad antibacterial spectrum, inhibits the growth of contaminating microflora. The acidic pH promotes the growth of yeasts and molds.

3 TYPICAL COMPOSITION

The composition can be adjusted in order to obtain optimal performance.

For 1 liter of media, **with neutralizers**:

- Peptic meat peptone	10,0 g
- Glucose	20,0 g
- Chloramphenicol	0,5 g
- Neutralizers mixture	7,2 g
- Bacteriological agar	15,0 g

pH of ready-to-use media at 25 °C: 5,7 ± 0,2.

4 INSTRUCTIONS FOR USE

- Use the culture media at room temperature and on a dry surface.
- Open the plate and apply the agar directly to the surface to be tested. Make sure to maintain uniform pressure over time (e.g. 500g for 10s according to NF EN ISO 18593). Then close the plate. Keep the agar at 1 to 8°C in a suitable transport container and incubate within 48 hours.
- Clean the sample surface to remove any traces of nutrients, moisture and chemical or physical elements resulting from the application of the agar.
- Incubate at 20-25°C for 3 to 5 days.

✓ **Incubation :**

3 to 5 days at 20-25 °C

NOTE : It is recommended that a control of the efficiency of the mixture of neutralizers present in the media be carried out in relation to the disinfectant product used, given the diversity of antiseptics existing on the market.

5 RESULTS

Proceed with the counting of the colonies. The grid at the bottom of the plates facilitates counting.

Divide the number of characteristic colonies by the area of the sampled surface and deduce the number of colony-forming units (CFU) per square centimetre of surface.

See **ANNEX 1: PHOTO SUPPORT.**

6 QUALITY CONTROL

Typical culture response after 72 hours of incubation at 25°C (NF EN ISO 11133):

Microorganisms		Growth (Productivity Ratio : P_R)
<i>Saccharomyces cerevisiae</i>	WDCM 00058	$P_R \geq 70 \%$
<i>Aspergillus brasiliensis</i>	WDCM 00053	$P_R \geq 70 \%$

7 STORAGE / SHELF LIFE

Ready-to-use media: 2-8 °C

Expiry dates are indicated on the labels.

Sealed off bags can be stored for 30 days at 25°C

8 PACKAGING

Pre-poured media in plates (Ø 65 mm):

20 plates BM21008

9 BIBLIOGRAPHY

NF EN ISO 18593. July 2018. Microbiology of the food chain - Horizontal methods for sampling techniques from surfaces using contact plates and swabs.

NF EN ISO 11133. July 2014. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media.

10 ADDITIONAL INFORMATION

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

Code document : Contact SABOURAUD with Chloramphenicol (SDCA) + Neutralizers _ FR_V4.
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ANNEX 1 : PHOTO SUPPORT

CONTACT SABOURAUD WITH CHLORAMPHENICOL (SDCA) + NEUTRALIZERS

Detection and enumeration of yeasts and molds.

Reading:

Growth obtained after 3 days of incubation at 25 °C.

