HARTMANN

BODE Dip Slides Combi and Accessories

Bacterial indicator for the quantitatively detection of aerobic bacteria, yeasts and fungi

BODE Dip Slides Combi are used to detect the bacterial count of aerobic bacteria and for the selective detection of yeasts and fungi.

BODE Dip Slides Combi are used to determine the total bacterial count in liquid media (no drinking water analysis) and on surfaces.

Bacterial indicators can be used for examining:

- Water (no drinking water analysis)
- Industrial liquids (emulsion paints, cleaning agents, emulsions)
- Food industry (work surfaces, liquids)
- Cosmetics industry (shampoos, lotions)
- Water-soluble colours
- For microbial analysis of surfaces
- Inner surfaces of transport containers, production boilers, storage tanks etc.

BODE Dip Slides Combi

The culture medium carrier is coated on both sides with two different culture media.

The 2-chamber system allows to separately detect aerobic bacteria as well as yeasts and fungi in one single step.

The GK-T culture medium is light yellow and is used to detect aerobic bacteria. Due to the indicator additive TTC, the vast majority of bacteria grow in red colonies.

The culture medium HS is pink and is used to determine the bacterial count of yeasts and fungi. Yeasts grow pink, fungi cotton wool-like. The addition of gentamycin and trimethoprim inhibits the accompanying bacterial flora and thus does not form colonies.

The evaluation is performed by direct comparison of the colony density on the culture media with sample images (see execution).

The size of the culture media (agar plate) is 2 x 6 cm (12 cm^2)

Directions for use

Unscrew the lid of the container and remove the microbial indicator. Do not touch the culture medium surface.

Sample application:

For liquids:
Immerse the culture medium carrier in the test medium for 5 - 10 seconds, drain off excess liquid well and dab the lower support edge onto a clean filter paper or cloth.

For surfaces:
A sterile cotton swab can be used to spread the smear on the culture medium surface. A different smear is required for each culture medium surface.

In the case of easily accessible surface, a contact sample can also be taken. For this purpose, press both culture medium surfaces for 5 – 10 sec. on the area to be tested. Put the culture medium back into the tube and screw loosely. Label the tube with the collection site, date and sample name (self-adhesive labels are included in the package).

Incubation

Maintain culture media in an upright position during the incubation time.

Evaluation

Liquid samples are evaluated after the incubation period by comparing the colony density on the culture medium surfaces with the sample images.

Contact samples are evaluated by counting the colonies.

Note:
If only very small colonies grow, an extension of the given incubation period by 1 – 2 days is recommended.

Incubation in the incubator	**(30 °C – 37 °C)**
for bacteria:	1 - 2 days
for yeasts and fungi:	3 days
Incubation at room temperature	**(approx. 20 °C)**
for bacteria:	2 - 3 days
for yeasts and fungi:	4 - 5 days

Bacteria

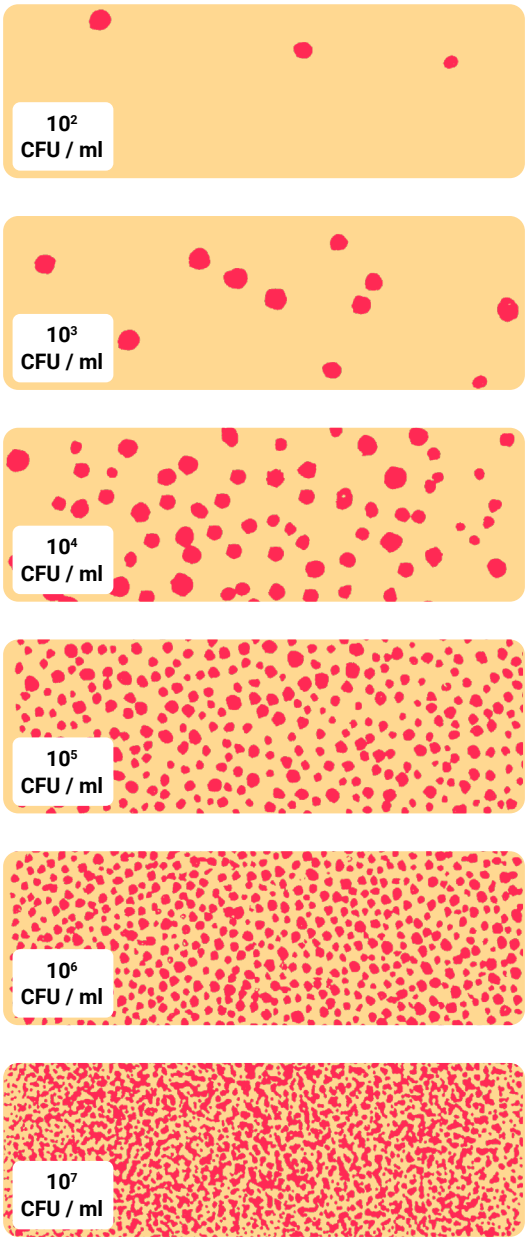
Aerobic bacteria grow on the light yellow culture medium and form predominantly red colonies.

Determination of the bacterial count (≙Total bacterial count)

up to 10^4	very low to low contamination
10^5 – 10^6	moderate to high contamination
over 10^6	high to very high contamination

Please note:
Colourless colonies must be taken into account when determining the bacterial count. In rare cases, completely colourless growth or almost complete bacterial growth may occur, which appears as a uniformly colourless or red surface.
If in doubt, always compare the incubated immersion culture medium with an unused BODE Dip Slide Combi. When assessing bacterial growth, the density of the colonies plays an important role.

To determine the total bacterial count, compare the culture media with the sample images:

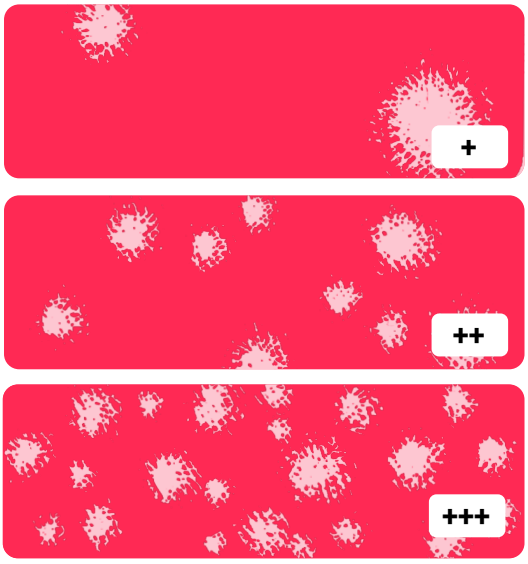


CFU: colony forming units

Fungi/Yeasts

Fungi and yeasts grow on the pink-coloured culture medium. The growth can be pure fungal growth, yeast growth or mixed growth.

Yeasts grow pink, fungi cotton wool-like. By adding gentamycin and trimethoprim, the accompanying bacterial flora is inhibited; thus, it does not form colonies.

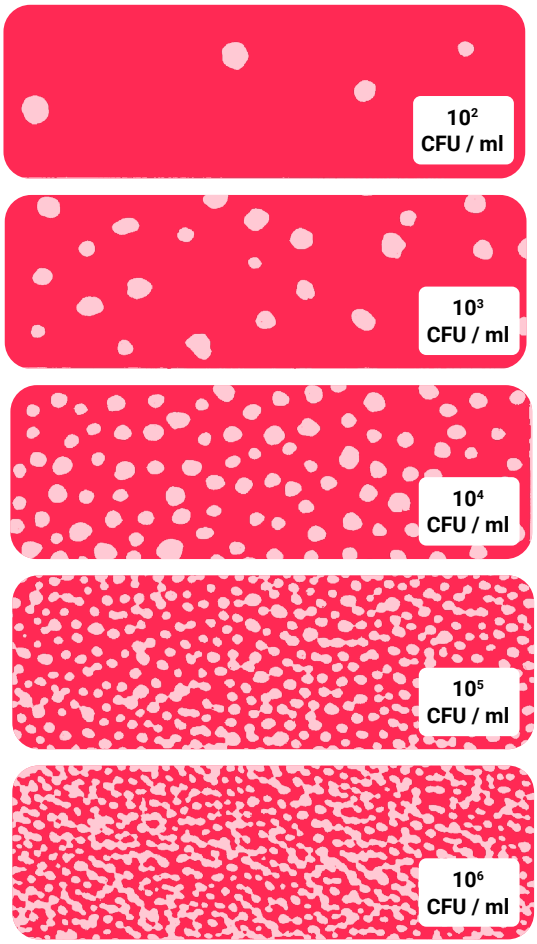


Fungi

Woolly colonies, formed by and consisting of single spores, filament particles or filament aggregates.

Evaluation:

+	low contamination
++	moderate contamination
+++	high contamination



Yeasts

Round, crooked and lustreless colonies, partly with extensions.

Evaluation:

up to 10^3	very low to low contamination
10^4 - 10^5	moderate to high contamination
above 10^5	high to very high contamination

To determine the total fungal count, compare the culture media with the sample images:

CFU: colony forming units

Incubators and Decontamination Accessories

Warming cabinet

The use of an incubator considerably reduces the incubation periods in nutrient media for the detection of microbial contamination. For the user, this means the results of the analyses are available more quickly; therefore, they are more up to date.

The incubator offers an especially practical and low-priced way for the incubation of culture media. Easy handling and temperature stability lead to a high operational safety.

The incubator can be operated in a horizontal as well as in a vertical position.

Technical Data

Temperature range	25 – 45 °C
Temperature stability	± 1 °C
Thermometer	up to 60 °C, in special tub
Voltage	230/110 V~, 50 HZ
Connected load	26 W/0,2 A
External dimensions	in mm (WxHxD) 310 x 155 x 168
Internal dimensions	in mm (WxHxD) 220 x 120 x 150
Weight	1,1 kg

Decontamination

For disposal, the dip slides can be placed in disinfectant solution. Alternatively, they can be autoclaved or disposed of as operational residual waste if this is fed to a domestic waste incineration plant.

Disinfection Tub

The 3-litre tub is specially adapted to taking in the contaminated fomites.

The tub provides a secure protection for the user. Due to the practical sieve insert, it is possible to take out the nutrient medium carriers and the tubes without touching the disinfectant solution with your hands. For this purpose, the sifter is put into the tub on the left or on the right side; the disinfectant solution can drip back into it.

Technical Data

Model	Tub with lid and sifter insert made of PVC
Colour	white
Lid	white, with slot
Cubic capacity	3 litres with line mark
Dimension	in mm (WxHxD) 300 x 200 x 110

Durability/storage

The expiry date of the BODE Dip Slides Combi is printed on the packaging. The culture medium carriers are stored at room temperature (approx. 20 °C) in a dry place and protected from light.

Condensation can occur with temperature fluctuations. However, this does not affect the quality of the BODE Dip Slides Combi culture medium carriers.

Product presentation

	Content	Item no.
BODE Dip Slides Combi	2x10 tubes	on request
Incubator	1 item	on request
Tube holder	1 item	on request
Disinfection tub	1 item	on request

Please note: The recommendations for our slides are based on scientific examinations and are given to the best of our knowledge. Further recommendations, e.g., concerning material compatibility, are possible only separately in individual cases. Our recommendations are not binding, and they are no guarantee. They do not exclude your own assessment for the intended procedures and purposes. In that sense, we are not able to assume liability. The latter is based on our general terms of sale and delivery.

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