Hygiene monitoring

Handy culture media for cost-effective, in-house detection of aerobic bacteria, fungi and yeasts.
Thanks to BODE Dip Slides Combi, it is possible to cost-effectively monitor the hygiene status within the scope of GMP (Good Manufacturing Practices) and HACCP (Hazard Analysis of Critical Control Points). In many cases, external laboratories and the time and effort for producing own culture media are not necessary any more. BODE Dip Slides Combi are suitable for monitoring hygiene in following areas:

- Health care
  1. Medical domain
     - e.g. for routinely monitoring reprocessed endoscopes
     - verification of water quality
  2. Industrial domain
- Food companies such as
  - meat and fish processing
  - bakeries, sweets industry
  - beverage industry
  - milk processing industry
  - delis, canteen kitchens and catering services
- Cosmetics industry
- Pharmaceutical industry
- Metal working industry
- Oil industry etc.

Product properties

The culture medium's one side is filled with light yellow TTC agar, the other with pink Rose Bengal agar. This two-chamber system permits the separate detection of aerobic bacteria, yeasts and fungi in one work step. Aerobic bacteria grow on the light yellow TTC agar; yeasts and fungi on the pink Rose Bengal agar.

Evaluation is carried out by directly comparing the colony density on the agar surface with sample pictures (see Directions for use).

Due to its easy handling, this test is also suitable for staff without microbiological training.

Application areas

BODE Dip Slides Combi are used for determining the total number of microorganisms in fluid media or on surfaces, e.g.

- milk, fruit juices, soft drinks, soups, sauces, egg
- basic materials (flour, spices, starch)
- shampoos, lotions
- inner surfaces of transport containers, production kettles, holding tanks etc.
- work spaces, chopping boards, cutter blades, axes, knives, other equipment
- wash basins
- packaging material
- industrial liquids (cooling lubricants, emulsion paints, detergents, emulsions)
- cutting oils
- cooling water circuits
Directions for use

- Unscrew container lid and take out culture medium. Do not touch agar surfaces.
- Apply sample.

For liquids:
Dip culture medium into test medium for 5–10 s; let excess drip off and dab bottom of medium on a clean paper or cloth.

For high-viscosity samples, powders and surfaces:
Take a swab by dint of a cotton pad and apply evenly to the agar’s surface. Each agar surface requires a separate swab. In case the surfaces are easy to access, it is also possible to make imprint samples. For this, press both agar surfaces on the surface to be tested for 5–10 s.

- Put culture medium back into the tube and close it. Label tube with date, test location and test medium (labels are in the package).

Incubation and evaluation

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

| Incubation in the incubator (27 °C – 30 °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 |

- Evaluation of fluid samples is carried out by comparing the colony density on the agar surfaces with the sample pictures (see back side).
- Evaluation of imprints is carried out by counting of colonies.

Note:
In case that only small colonies grow, it is recommended to extend the specified incubation time by 1–2 days.

For appropriate disposal we recommend, to deposit contaminated culture media in 1 % Kohrsolin® extra solution overnight. Alternatively, culture media may also be burned.

Durability / storage

The ‘best before’ date of the BODE Dip Slides Combi is printed on the packaging. The culture media are stored at room temperature (approx. 20°C), protected against draft and light. Variations in temperature may lead to formation of condensed water. However, this does not impair the quality of the BODE Dip Slides Combi culture media.

Range of products

<table>
<thead>
<tr>
<th>Packages</th>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>BODE Dip Slides Combi</td>
<td>2 x 10 pcs. in a box</td>
</tr>
<tr>
<td>- 2-chamber system</td>
<td>- for the separate detection of aerobic bacteria as well as yeasts and fungi</td>
</tr>
<tr>
<td>Small incubator</td>
<td>1 pc.</td>
</tr>
<tr>
<td>- for the incubation of BODE Dip Slides</td>
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</tbody>
</table>
BODE Dip Slides Combi

For determining the total number of microorganisms, compare culture media with sample pictures:

**Bacteria**

Bacteria grow as red colonies on the light yellow TTC agar.

Determination of bacteria count:
- **up to** $10^4$: very low to low contamination
- $10^5 - 10^6$: moderate to high contamination
- **above** $10^6$: high to very high contamination

*Please note:* For determining the bacteria count, colorless colonies have to be included. Rarely, the bacteria growth can be completely colourless or confluent, which appears as an even, colourless or red surface. In cases of doubt, always compare the incubated culture medium with an unused BODE Dip Slides Combi. The density of the colonies are decisive for the evaluation of the bacteria growth.

**Filamentous fungi / yeasts**

Filamentous fungi and yeasts grow on the pink Rose Bengal agar. The growth can consist of pure filamentous fungi growth, yeast growth, or mixed growth.

**Filamentous fungi:**
Wooly colonies consisting of individual spores, filament fragments or aggregates

**Yeasts:**
Round, crooked and mat colonies, partly with extensions

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