

Biogenetics **Diagnostics**

Microbiological Culture Slides

DIPSLIDES AND CONTACT SLIDES NEW ISO SPECIFIED MEDIA

For industrial and environmental monitoring of bacteria and fungi

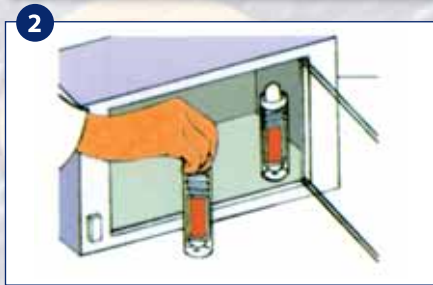
An easy and fast control of microbiological contamination of surfaces, fluids, waters and food products. Ideal to verify the hygienic conditions of equipments and manufacturing processes at an early stage and to check the effective validity of disinfections procedures.



Supplied sterile, the slides can be used on site where sampling take just a few seconds. They are then replaced in the tube and incubated for 24-48 hours. The resulting markings are compared to a chart so that the level of bacterial growth can be ascertained. If bacteria are present, samples can be sent to a laboratory for identification. The appropriate remedial action can then be taken.

PROCEDURE

FLUID SAMPLING



Inoculation: remove the dip slide tongue from its tube, holding it by the cap, taking care not to touch the culture media.

1. **Surface sampling:** press one medium against the surface to be tested. Repeat the procedure with the other medium but do not use exactly the same spot. When testing curved surfaces roll the slide to ensure maximum contact between the agar and the surface.

Fluid sampling: immerse the slide in the fluid to be tested for about ten seconds or expose it to a spray or running fluid so that the agar surfaces are covered. Remove the slide from the fluid and allow it to drain for a few seconds. Replace the tongue unit into its tube and tighten the cap.

2. **Incubation:** inoculated slides should be incubated at 35°C for bacteria. It is important to begin incubation as soon as possible and to continue incubation for several days to guard against false negative results.

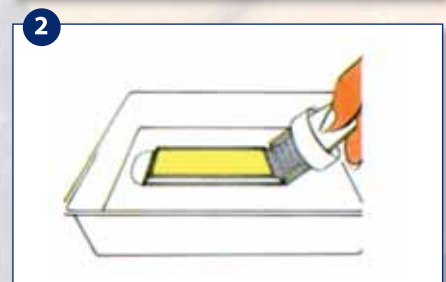
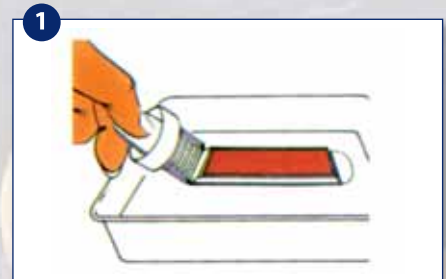
Incubation time is 24-48 hours for bacteria.

The optimum temperature for most yeasts and moulds is 27°C to 30°C with an incubation time of 2-7 days. If the incubation temperature is considerably different from the temperature of the sample site, microbial growth may be slow and it is advisable to continue incubation for further periods to detect the presence of organisms.

3. **Interpretation of results:** compare results to charts provided to estimate level of contamination. As regards surfaces each side of the slide measures 10,1 cm². Recovery is 50%. Thus for a static test each colony represents 0,2 units per cm². To increase sensitivity the slide can be used to sweep an area.

On the other hand note that very high levels may lead to a confluent growth and could be recorded as a nil result. Compare to an unused slide when reading results.

SURFACE SAMPLING



Package: box of 30 slides.

Storage: the slides should be kept cool but not refrigerated. Best storage: stable temperature between 10°C and 18°C.

At higher temperatures dehydration may occur, whereas freezing may destroy the properties of the agar.

It is important that the storage temperatures don't vary by a lot (more than ±4°C).

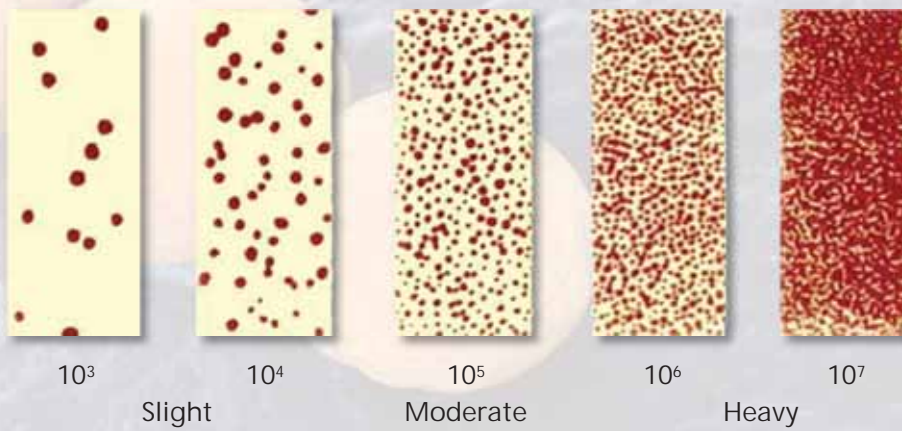
The slides will remain suitable for use as long as there is no visible contamination and the agar surfaces remain smooth and adherent to the slide. Check before use that there is no growth on the slides.

Disposal instructions: infected slides should be autoclaved, incinerated or soaked in disinfectant before disposal.

MICROBIAL COMPARISON CHART

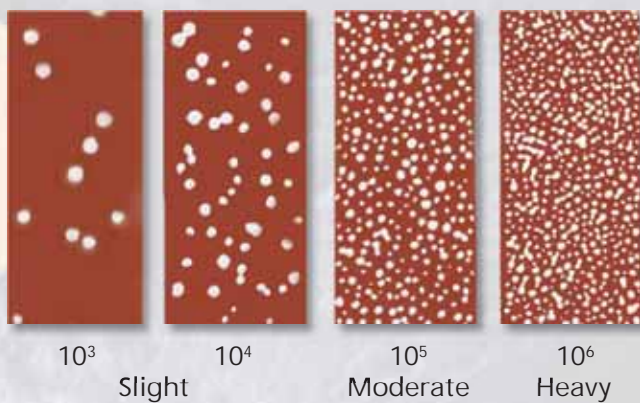
Bacteria

Colony Forming Units (CFU) per Milliliter (ml)

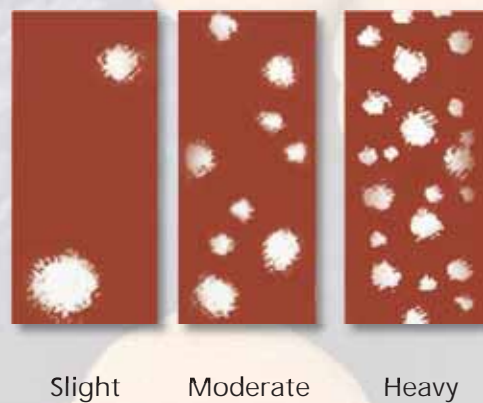


Fungi

Yeast (Single Cell Fungi) CFU per ml



Mold - Growth Rating



CODE	DENOMINATION	COMPOSITION SIDES	TEMP. °C	HOURS
BT201	<p>TOTAL COUNT SLIDE No. 1</p> <p>Suitable for general use in a wide variety of areas.</p> <p>The addition of TTC dye colours most colonies red for easy enumeration.</p>	Nutrient Agar with TTC	35	18-36
BTN03	<p>TOTAL COUNT SLIDE No. 3</p> <p>Especially developed to monitor microbiological contamination of controlled environments and white rooms, through a better recovery of damaged organisms, in pharmaceutical and cosmetic industry and for food applications.</p>	Nutrient Agar with TTC and neutralisers	35	18-36
PCT04	<p>TOTAL COUNT SLIDE No. 4</p> <p>Suitable for general use and in particular for dairy products with the addition of TTC dye for easy enumeration.</p>	Plate Count Agar with TTC	35	18-36
PCN05	<p>TOTAL COUNT SLIDE No. 5</p> <p>Added with neutralisers for assessing the effectiveness of cleaning procedure in food handling environments.</p>	Plate Count Agar with neutralisers	35	18-36
SC207	<p>COLIFORMS SLIDE No. 1</p> <p>Recommended for the selective and differential detection of coliforms, most of which are important causative organisms of food poisoning. <i>Salmonella</i> and <i>Shigella</i> will grow on this media.</p>	Plate Count Agar Mac Conkey Agar No. 3	35	18-36
SCN08	<p>COLIFORMS SLIDE No. 2</p> <p>Recommended to increase the recovery of damaged coliform organisms which don't normally show up on culture plates. Most useful for assessing the effectiveness of cleaning procedures.</p>	Plate Count Agar Mac Conkey Agar No. 3 with neutralisers	35	18-36
PVC09	<p>ENTEROBACTERIACEAE SLIDE No. 1</p> <p>Recommended for the selective detection of Enterobacteriaceae.</p> <p>VRBGA is slightly less selective than Mac Conkey Agar and doesn't contain lactose.</p>	Plate Count Agar Violet Red Bile Glucose Agar	35	18-36
TV010	<p>ENTEROBACTERIACEAE SLIDE No. 2</p> <p>Recommended to prevent transfer of active biocides from a surface and to improve the recovery of damaged entero organisms which could cause problems if left. Most useful for assessing the effectiveness of cleaning procedures.</p>	Plate Count Agar Violet Red Bile Glucose Agar with neutralisers	35	18-36

CODE	DENOMINATION	COMPOSITION SIDES	TEMP. °C	HOURS
VRB13	ENTEROBACTERIACEAE SLIDE No. 3 Especially developed for the presumptive count of Enterobacteriaceae on sanitized surfaces, according to ISO 21258.	Violet Red Bile Glucose Agar with neutralisers	35	18-36
TTV010	ENTEROBACTERIACEAE SLIDE No. 5 Dedicated to improve the recovery of damaged enteric organisms on sanitized surfaces. The addition of TTC dye colours most colonies for easy enumeration.	Plate Count Agar with TTC Violet Red Bile Glucose Agar with neutralisers	35	18-36
ECS12	ESCHERICHIA COLI SLIDE No. 1 Recommended to improve the sensitivity and specificity of <i>Escherichia coli</i> detection in food products, water and environmental samples. The addition of 4-methyl-umbelliferyl- β -D-glucuronide is cleaved by an enzyme present in <i>Escherichia coli</i> to give a compound that shows a blue fluorescent agent. Mainly useful for the detection of anaerogenic strains of <i>Escherichia coli</i> when present in mixed cultures.	Nutrient Agar Mac Conkey Agar No. 3 with MUG	37	18-24
TBX20	ESCHERICHIA COLI SLIDE No. 2 The advantage of the chromogenic substrate for the simple enumeration of <i>Escherichia coli</i> , according to ISO 16649.	Tryptone Bile Glucuronide Agar (T.B.X.)	44	18-24
ECC21	ESCHERICHIA COLI-COLIFORMS SLIDE Dual chromogenic substrate developed for the simultaneous enumeration of <i>Escherichia coli</i> and coliforms in environmental samples.	Chromogenic Coliform Agar	37	18-24
BTM23	FUNGI SLIDE No. 1 Recommended for the growth of yeasts and moulds. Yeasts appear as round white or grey discs. Moulds appear as furry colonies.	Nutrient Agar with TTC Malt extract Agar	30	18-72
RBS04	FUNGI SLIDE No. 2 Recommended for the selective enumeration of yeasts and moulds. The antibiotic content makes easier the fungi count reading.	Nutrient Agar with TTC Rose Bengal Chloramphenicol Agar	30	18-72
BRB26	FUNGI SLIDE No. 4 Recommended for the selective enumeration of yeasts and moulds. Rose Bengal is taken up by small colonies which show up as pink dots.	Rose Bengal Chloramphenicol Agar	25	24-120

CODE	DENOMINATION	COMPOSITION SIDES	TEMP. °C	HOURS
DGA18	<p>FUNGI SLIDE No. 5</p> <p>Recommended for the enumeration of yeasts and moulds in food and animal products such as dry fruits, jams, cakes, dried meat, salted fish, grains, cereals, flours, spices, according to ISO 21527-2.</p> <p>Suggested storage conditions: 2-8°C.</p>	DG18 Agar	25	24-120
SAS14	<p>STAPHYLOCOCCUS AUREUS SLIDE No. 1</p> <p>Recommended for the selective isolation and enumeration of <i>Staphylococcus aureus</i> in food products.</p> <p><i>Staphylococcus aureus</i> reduces tellurite to form grey-black colonies surrounded by clear zones by proteolytic action.</p>	<p>Plate Count Agar</p> <p>Baird Parker Agar</p>	35	24-48
SAS16	<p>STAPHYLOCOCCUS AUREUS SLIDE No. 2</p> <p>Recommended for the selective isolation and enumeration of <i>Staphylococcus aureus</i> in food products on both sides.</p>	Baird Parker Agar	35	24-48
BV017	<p>STAPHYLO-ENTERO SLIDE</p> <p>Developed for the simultaneous isolation of <i>Staphylococcus aureus</i> and enteric bacteria in food plants.</p>	<p>Baird Parker Agar</p> <p>Violet Red Bile Glucose Agar</p>	35	24-48
SFS19	<p>ENTEROCOCCUS FAECALIS SLIDE No. 2</p> <p>Recommended for the enumeration and presumptive identification of enterococci on food surfaces and water samples.</p>	<p>Plate Count Agar</p> <p>Slanetz and Bartley Agar</p>	35	24-48
TP011	<p>PSEUDOMONAS SLIDE</p> <p>Suitable for the detection of all Pseudomonas species in water and food products.</p>	<p>Nutrient Agar</p> <p>Pseudomonas CFC Agar</p>	30	24-48
TSAN IRR	<p>TSA IRRADIATED SLIDES</p> <p>Double bagged and sterilized by gamma irradiation for microbiological monitoring of surfaces in clean rooms and pharmaceutical production sites.</p>	Tryptone Soy Agar	35	24-48
SDAN IRR	<p>SDA IRRADIATED SLIDE</p> <p>Double bagged and sterilized by irradiation for monitoring the growth of yeasts and moulds in clean rooms and pharmaceutical production sites.</p>	Sabouraud Dextrose Agar	25	24-120

CODE	DENOMINATION
IC0030	<p>CULTURA INCUBATOR</p> <p>The reliable and convenient way from which to monitor results of microbe testing.</p> <p>Certified by TUV and issued according to European standards. Guarantee two years from purchase date.</p>

CULTURA®





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