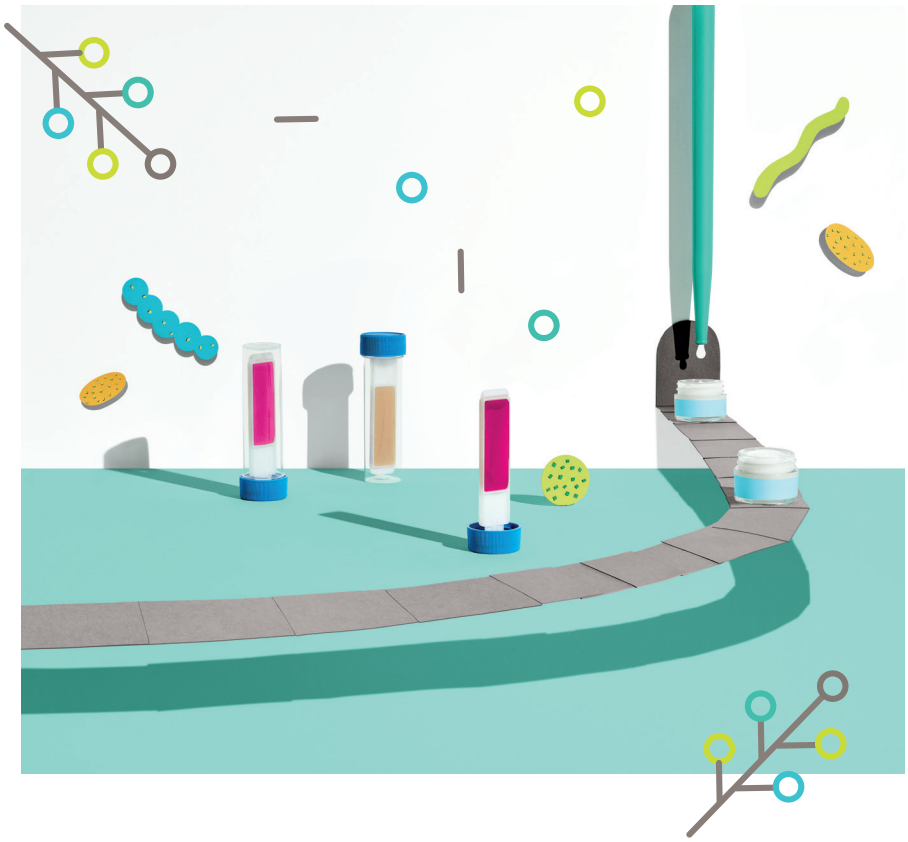
germcount™ combi dipslide

easy hygiene testing with dipslides containing TTC and Rose Bengal Medium

key features and benefits

- evaluation of total germ count
- simple application
- fast, safe and easy
- precise and reliable
- economical to use
- separate evaluation of bacteria, yeasts and molds



description

Germcount™ combi dipslide is a plastic slide coated on one side with TTC-agar (bacterial growth) and on the other side with Rose Bengal Agar (yeast and mold growth).

Germcount™ combi dipslide is manufactured under aseptic conditions. The agar surfaces contain no toxic ingredients that could be transferred to the products being tested.

Furthermore, this dipslide is supplied with a transparent, shatterproof protective tube. Subsequent contamination is therefore prevented, and the results can be evaluated with the tube sealed, thus avoiding the risk of contamination to employees.

With strict production standards, we guarantee that germcount™ combi dipslide is a product of consistent high quality.

quality assurance with germcount™ combi dipslide

In addition to production hygiene measures, hygiene guidelines and quality assurance concepts require routine hygiene controls during the production process and documentation of the results. Germcount™ combi dipslide provides every operation with individual means of rapid and reliable hygiene controls. These dipslides can be used for testing raw materials, for in-process controls during the production process, for quality control of finished products, and in watermixed coolants. Germcount™ combi dipslide enables simple sampling and evaluation of the results, even by personnel without any microbiological training. Special laboratory equipment is not necessary.

application

- cosmetic industry
- household industry
- technical industry

figure 1. agar composition

TTC Agar	Rose Bengal Agar
Meat Extract	Peptone
Tryptone	Dextrose
Disodium Succinate	Potassium Hydrogen Phosphate
Agar - Agar	Magnesium Sulphate
TTC Solution	Sodium Chloride
Water	Agar - Agar
	Rose Bengal
	Chloramphenicol
	Gentamycin Sulphate
	Sodium Hydroxide
	Water
pH 7.1 – 7.4	**pH 7.0 – 7.2**

advantages at a glance

product benefits

easy to use

Without any preparation time, the slide can be used to test surfaces, semi-solid materials and liquids.

quick and convenient

Always handy and reliable to use – even at last minute, e.g. when testing needs to be carried out during night shift. No special laboratory equipment is necessary.

economical

The previous time-consuming laboratory work for preparing nutrient media, producing dilution series and counting colonies is eliminated. In addition, the considerable costs of external laboratory are saved.

accurate and reliable

The strict standards to which germcount™ combi dipslide is produced guarantee a product of consistent excellent quality.

detection of bacteria and molds

With germcount™ combi dipslide, bacteria, yeasts and molds can be separately detected with a single dipslide.

simple to use

Sampling and evaluation can be carried out even by personnel who have no training in microbiology.

safe

Incubated samples are evaluated in sealed tubes which risks of contamination are avoided.

storage and stability

The tubes should be stored unopened at room temperature (about + 20°C) and protected from draught, temperature fluctuations and light. Avoid storage near heat-generating applications. The slides must not be allowed to freeze. The expiration date is marked on the box. Any unused slide showing microbial growth should be discarded. Temperature fluctuations may result in condensation settling at the bottom of the dip slide tube.

This sterile liquid can simply be disposed of down the sink. The performance and the results of germcount™ combi dipslide are not affected by this, provided that the media are not visually dehydrated.

instructions for use

instructions

1. Unscrew the lid of the container and remove the slide without touching the agar surfaces.
2. For direct testing in circulation systems, dip the slide into the liquid to be tested at an accessible point, or hold the slide in the liquid stream. If the liquid sprays at high pressure, make sure the agar does not detach from the slide. If samples are being taken using a beaker, mix the liquid thoroughly before dipping in the slide into the liquid. The slide should be held in contact with the sample for about 5 – 10 seconds. Both sides of the slide must be completely wetted.

   Taking samples by dipping the slide into the liquid shall not be done for high viscose liquids. For high viscose fluids and also at points that are difficult to access, a sterile swab shall be used to take the sample, which is then streaked out onto the agar surface. The high viscose liquid shall be streaked out evenly as a very thin layer onto the agar.

   For surfaces and solid media, press each side of the slide on the surface.
3. Place the slide back in the tube and screw on the top.
4. After incubation for 24–48 hours at 25–30°C, the TTC agar result (bacteria) is available. In 2–4 days the result is usually readable at room temperature. For slow-growing microorganisms, the result should be checked again after 48 hours. Yeasts and molds grow after an incubation period of 72-96 hours. In 4–8 days the result is usually readable at room temperature.

5. After incubation, compare the colony density on the agar surface with the evaluation chart. The results should be evaluated with the tube sealed. Ideally, the incubation temperature should be as close as possible to practical conditions.

disposal

Disposal of used germcount™ combi dipslide is best carried out by burning or autoclaving.

evaluation

interpretation of results

The evaluation chart shows colonies formed on germcount™ combi dipslide which correspond to different degrees of microbial contamination. The figures are shown in cfu*/ml.

1. **colony growth**

   Colony growth of incubated samples on both sides of the slide is compared to the pictures in the evaluation chart. The picture that most closely resembles the colony density on the agar slide is taken as the test result.

2. **bacterial growth**

   Most bacteria grow to form red colonies. Colorless colonies may also form. Caution! These colorless colonies must also be taken into consideration.

3. **molds and yeasts growth**

   It is possible for molds or yeasts or a mixture of molds and yeasts to grow on the Rose Bengal Agar.

*cfu = colony forming units

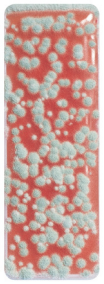
Pay attention to the package insert!

TTC Agar (total bacterial count)

bacteria (cfu/ml)						
per ml	10^2	10^3	10^4	10^5	10^6	10^7

Rose Bengal Agar

yeast (cfu/ml)					
per ml	10^2	10^3	10^4	10^5	10^6

mold		+ slight		++ moderate		+++ heavy

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