

schülke +

## mikrocount® dipslides

Hygiene testing made easy.



we protect lives  
worldwide

# Trust is good, control is even better.



Systematic monitoring of the environmental and operating hygiene status plays an important role in quality assurance measures.



The mikrocount® product range provides every operation with individual means of rapid and reliable hygiene control, e.g. in sensitive production areas or medical areas.

In addition to production and personnel hygiene measures, applicable hygiene guidelines and quality assurance concepts (e.g. GMP or HACCP) require routine hygiene controls at each step of the production process and documentation of the results.

mikrocount® dipslides are the ideal solution for comprehensive hygiene monitoring of the entire production process.

Step-by-step controls help to easily identify weak points in hygiene, so that necessary measures can quickly be initiated, thus ensuring that only goods free of defects are produced at all times.

The mikrocount® product series offer every operation an uncomplicated means of rapid and reliable hygiene control. The composition of the agar surface was optimised for process monitoring, the control of raw and finished goods and the control of disinfectant measures (surface disinfection).



# All advantages at a glance.



- Easy to use
- No preparation time
- Testing of surfaces, semi-solid materials and liquids with just one product
- Expensive laboratory equipment is not necessary
- Results within 24–72 hours

## Fast and easy to use.

Always at hand. Without any preparation time, the slide which has an agar surface of 12.5 cm<sup>2</sup> can be used to test surfaces, semisolid materials and liquids. Special laboratory equipment and personnel with microbiological training is not necessary. In addition, the practical pivot joint facilitates testing of surfaces. All mikrocount® dipslides are equipped with a hexagonal hole in the lid, which can be used for inserting an extension rod.

## Easy to evaluate.

A comparison with an evaluation chart allows the user to quickly and easily read off the results. If necessary, the contaminated germ carrier can be used for specific follow-up tests.

## Economical.

Sending away samples and time-consuming laboratory work for preparing nutrient media, production dilution series and counting colonies is eliminated. Significant costs for an external laboratory are saved.

## Safety due to quality.

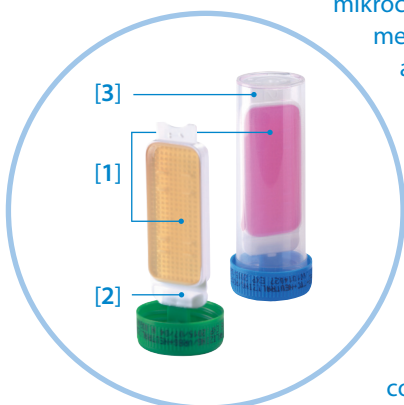
The strict standards to which mikrocount® dipslides are produced guarantee a product of consistent excellent quality. These standards include clean-room filling and the ISO 9001 certification. mikrocount® dipslides are supplied in shatter-free, environmentally friendly and sterile plastic tube made of polypropylene (without PVC content).



## Easy disposal.

Once used, the dipslides can be destroyed by burning, autoclaving or immersion in disinfectant solution.

## mikrocount® product range:



mikrocount® dipslides are plastic nutrient media slides coated on both sides with a special agar [1] on which the respective microorganisms grow. The high sensitivity of mikrocount® dipslides allows a hygiene control of products with high standards.

The nutrient media slide is equipped with a pivot joint [2], making it considerably easier to draw samples across the entire surface with surface contact.

mikrocount® dipslides are manufactured under sterile conditions. The agar surfaces contain no toxic ingredients that could be transferred to the products being tested.

Furthermore, the dipslides are supplied with a transparent and shatter-proof protective tube [3]. The results are evaluated with the tube sealed, thus avoiding the risk of contamination of employees. Due to the high standards under which mikrocount® dipslides are produced we guarantee a product of consistent excellent quality.



## mikrocount® TPC

**For the determination of the total plate count.**

This nutrient media allows the growth of the most common bacteria, yeasts and fungi. The agar contains lecithin and Tween for neutralising any potential residues of disinfectants with cationic substances.

20 slides / box | Art. No. 182812



## mikrocount® duo

**For the combined determination of the total plate count as well as yeasts and moulds.**

mikrocount® duo is used for the combined determination of the total plate count and for the detection of yeasts and moulds with inactivation of disinfectants.

20 slides / box | Art. No. 70000724



## mikrocount® TPC/E

**For the combined determination of the total plate count and for the detection of enterobacteria.**

These nutrient media are used for the combined determination of the total plate count and for the detection of enterobacteria within the scope of microbiological monitoring of surfaces with inactivation of disinfectants.

20 slides / box | Art. No. 182811



### Storage and support

The mikrocount® dipslides should be stored unopened at room temperature. They should be protected from drying out, light and frost. The dipslides have a shelf-life of 9 months. Any unused slide exhibiting microbiological growth should be discarded.

Temperature fluctuations may result in condensate settling at the bottom of the slide tube.

This sterile liquid can simply be disposed of down the sink, without the performance and results of the dipslides.

## cultura® incubator

**For incubation of mikrocount® dipslide samples we recommend the small cultura® incubator.**

It is compact and adequate for nearly every laboratory or manufacturing site. It has room to hold up to 18 mikrocount® dipslides. The transparent door allows to view the contents of the incubator without having to move the samples. The temperature is adjustable and preset by the manufacturer to maintain an optimal 30°C. Results for bacteria are available after 24 to 48 hours. The detection of yeasts and moulds takes slightly longer (3 – 5 days).

### Technical Data:

Capacity	18 mikrocount® dipslides
Temperature range	25 – 45°C
External dimensions (w x d x h)	310 x 155 x 168 mm
Internal dimensions (w x d x h)	220 x 120 x 150 mm
Weight	1.1 kg
VDE/TÜV-proved	

### cultura® incubator Art. No.

230 V (German plug)	183301
230 V (English plug)	183310
110 V	183302



# Hygiene testing with a system.

Easy, safe and reliable – mikrocount® dipslides.

## Application of mikrocount® dipslides



### Contact inoculation:

- For surfaces and solid samples.
- Hold both sides of the nutrient media carrier onto the surface for about 5 seconds without touching the agar with your hands.
- The pivot joint of the agar slide offers additional convenience.



### Streak test:

- Use a sterile swab to collect samples from points that are difficult to access or from highly viscous liquids.
- The swab is then streaked out onto the agar surface of the slide in order to transfer the microorganisms to be cultivated.



### Dip:

- The slide is dipped into the liquid which is to be tested for a few seconds.
- Allow any excess liquid to run from the nutrient media carrier to ensure safe transportation of the dipslides.



### Incubation:


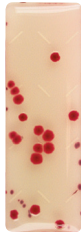
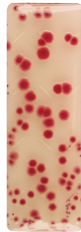
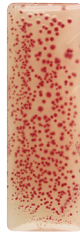


- Incubation in closed tubes
- **mikrocount® TPC**  
24 – 48 h at 25 °C – 30 °C
- **mikrocount® TPC/E**  
24 – 48 h at 25 °C – 30 °C
- **mikrocount® duo**  
24 – 48 h at 25 °C – 30 °C  
Detection of yeasts and moulds 3 – 5 days at 25 °C – 30 °C






### Application areas:



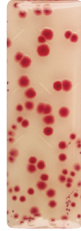
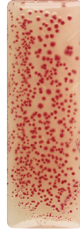


- hospital ■ food processing
- kitchens (e.g. hospitals)
- cosmetic industry ■ pharmaceutical industry
- laboratories ■ metalworking and related industry
- paint industry ■ paper and coatings industry
- textile industry ■ water treatment
- household industry ■ chemical / technical industry
- applicable for tests according to DIN 55 997



# mikrocount® dipslides – Evaluation Tables

mikrocount®		TPC	Total plate count Bacteria			
10 <sup>2</sup> CFU/ml	10 <sup>3</sup> CFU/ml	10 <sup>4</sup> CFU/ml	10 <sup>5</sup> CFU/ml	10 <sup>6</sup> CFU/ml	10 <sup>7</sup> CFU/ml	
						
< 1 CFU/cm <sup>2</sup>	1 CFU/cm <sup>2</sup>	5 CFU/cm <sup>2</sup>	45 CFU/cm <sup>2</sup>	80 CFU/cm <sup>2</sup>	> 100 CFU/cm <sup>2</sup>	

mikrocount®		TPC/E	Enterobacteria		
10 <sup>2</sup> CFU/ml	10 <sup>4</sup> CFU/ml	10 <sup>5</sup> CFU/ml	10 <sup>6</sup> CFU/ml	10 <sup>7</sup> CFU/ml	
					
1 CFU/cm <sup>2</sup>	5 CFU/cm <sup>2</sup>	45 CFU/cm <sup>2</sup>	80 CFU/cm <sup>2</sup>	> 100 CFU/cm <sup>2</sup>	

mikrocount®		TPC/E	Total plate count Bacteria			
10 <sup>2</sup> CFU/ml	10 <sup>3</sup> CFU/ml	10 <sup>4</sup> CFU/ml	10 <sup>5</sup> CFU/ml	10 <sup>6</sup> CFU/ml	10 <sup>7</sup> CFU/ml	
						
< 1 CFU/cm <sup>2</sup>	1 CFU/cm <sup>2</sup>	5 CFU/cm <sup>2</sup>	45 CFU/cm <sup>2</sup>	80 CFU/cm <sup>2</sup>	> 100 CFU/cm <sup>2</sup>	

Please note that the colours shown may vary slightly from the colour change of the mikrocount® dipslides.

## Evaluation of mikrocount® dipslides.

For the evaluation of the colony density on the carrier, compare the slides with the pictures. Preferably, the evaluation should be done with a closed tube in order to prevent the contact with the microorganisms. Results that are obtained using varying inoculation methods of different materials cannot be compared with one

another. However, different tests that use the same method for the same kind of materials can be compared with one another and the results used for drawing quantitative conclusions. The nutrient media carrier for determining the total plate count uses an agar that enables growth of the most common microorganisms.

\*CFU = Colony Forming Unit

# mikrocount® dipslides – Evaluation Tables

mikrocount®		duo		Yeasts	
10 <sup>2</sup> CFU/ml	10 <sup>3</sup> CFU/ml	10 <sup>4</sup> CFU/ml	10 <sup>5</sup> CFU/ml	10 <sup>6</sup> CFU/ml	
1 CFU/cm <sup>2</sup>	5 CFU/cm <sup>2</sup>	45 CFU/cm <sup>2</sup>	80 CFU/cm <sup>2</sup>	> 100 CFU/cm <sup>2</sup>	

mikrocount®		duo		Fungi	
+	++	+++			

### Destruction:

Dipslides can be safely destroyed by burning, autoclaving or by immersion in a stock solution of a suitable disinfectant  
 (10% solution grotanol® 3025,  
 10% solution perform® classic conc. GA,  
 4% solution perform®.  
 Exposure time: overnight).

mikrocount®		duo		Total plate count Bacteria	
10 <sup>2</sup> CFU/ml	10 <sup>3</sup> CFU/ml	10 <sup>4</sup> CFU/ml	10 <sup>5</sup> CFU/ml	10 <sup>6</sup> CFU/ml	10 <sup>7</sup> CFU/ml
< 1 CFU/cm <sup>2</sup>	1 CFU/cm <sup>2</sup>	5 CFU/cm <sup>2</sup>	45 CFU/cm <sup>2</sup>	80 CFU/cm <sup>2</sup>	> 100 CFU/cm <sup>2</sup>

Most bacteria grow to form red colonies. Colourless colonies may also form, these must also be taken into consideration. It is advisable to read the results both after one and also after two to three days. If the sample contains swarming Proteus species or Bacillus species, it is best to read the results after the first day.

Otherwise, bacteria exhibiting slow growth that did not exhibit visible growth on the first day may sometimes occur. The detection limit of this agar is approx. >100 CFU\*/ml.

**Information:**  
 For further information  
 please visit our product website  
[www.mikrocount.com](http://www.mikrocount.com)





## schülke worldwide:

### Australia

Schülke Australia Pty Ltd  
Macquarie Park NSW 2113  
Phone +61 2 8875 9300  
Fax +61 2 8875 9301

### Austria

Schülke & Mayr Ges.m.b.H.  
1070 Vienna  
Phone +43 1 523 25 01 0  
Fax +43 1 523 25 01 60

### Brazil

Vic Pharma Indústria e  
Comércio Ltda.  
Taquaratinga/SP – CEP  
15900-000  
Phone +16 3253 8100  
Fax +16 3253 8101

### China

Shanghai Representative  
Office  
Shanghai 200041  
Phone +86 21 62 17 29 95  
Fax +86 21 62 17 29 97

### Czech Republic

Schulke CZ, s.r.o.  
73581 Bohumín  
Phone +420 558 320 260  
Fax +420 558 320 261

### France

Schülke France SARL  
92800 Puteaux, Paris La Défense  
Phone +33 1 42 91 42 42  
Fax +33 1 42 91 42 88

### India

Schulke India Pvt. Ltd.  
New Delhi 110044  
Phone +91 11 30796000  
Fax +91 11 42595051

### Italy

Schülke & Mayr Italia S.r.l.  
20158 Milano  
Phone +39 02 40 26 590  
Fax +39 02 40 26 609

### Malaysia

Schülke & Mayr (Asia) Sdn Bhd.  
47301 Petaling Jaya, Selangor  
Phone +60 3 78 85 80 20  
Fax +60 3 78 85 80 21

### Netherlands

Schülke & Mayr Benelux B.V.  
2031 CC Haarlem  
Phone +31 23 535 26 34  
Fax +31 23 536 79 70

### New Zealand

Schulke New Zealand Limited  
Auckland 1010  
Phone +61 2 8875 9300  
Fax +61 2 8875 9301

### Poland

Schulke Polska Sp. z o.o.  
02-305 Warszawa  
Phone +48 22 11 60 700  
Fax +48 22 11 60 701

### Russia

Moscow Representative Office  
123001, Moscow  
Phone +7 499 270 58 75  
Fax +7 962 902 77 15

### Singapore

Schülke & Mayr (Asia) Pte. Ltd.  
Singapore 159410  
Phone +65 62 57 23 88  
Fax +65 62 57 93 88

### Slovakia

Schulke SK, s.r.o.  
97101 Prievidza  
Phone +421 46 549 45 87  
Fax +420 558 320 261

### Switzerland

Schülke & Mayr AG  
8003 Zurich  
Phone +41 44 466 55 44  
Fax +41 44 466 55 33

### United Kingdom

Schülke & Mayr UK Ltd.  
Sheffield S9 1AT  
Phone +44 114 254 35 00  
Fax +44 114 254 35 01

### USA

schülke inc.  
Fairfield, NJ 07004  
Phone +1 973 770 7300  
Fax +1 973 770 7302

... plus our international distributors



[www.youtube.com/schuelkeChannel](http://www.youtube.com/schuelkeChannel)



[www.facebook.com/myschulke](http://www.facebook.com/myschulke)



[www.instagram.com/schuelke\\_com](http://www.instagram.com/schuelke_com)

### Schülke & Mayr GmbH

22840 Norderstedt | Germany  
Phone | Fax +49 40 52100-0 | -318  
[www.schuelke.com](http://www.schuelke.com)