

DIPSLIDES AND INCUBATORS

For Aerobic & Anaerobic Bacteria
Delivering simplicity and affordability through innovation.

A dipslide is a means of testing the microbial content of liquids or surfaces. It consists of a plastic carrier bearing a sterile culture medium which can be dipped in the liquid or pressed on to the surface to be sampled. It is then incubated for 48 hours at 30°C to allow microbial growth.

The dipslides microbial count is then estimated by reference to an appropriate chart. (Use *Dipslide Comparator App* available on apple & android). If the treatment programme is effective the count will be consistently low. If a high result is obtained the test should be repeated and the treatment programme or disinfection process checked.

Dipslides/Tube Tests are supplied in boxes of 10 and come with instructions to determine the activity of aerobic & anaerobic bacteria. The Tube Tests are a semi-quantitative test to monitor SRB and NRB bacterial contamination found in closed water systems. These are incubated upright at 30°C for 5 days.



Dipslide/Tube test options

- BactD001 - TTC/TTC for Total Viable Count (TVC) in waters and surfaces
- BactD002 - Malt/TTC for Yeasts, Moulds, Fungi & TVC in waters and surfaces
- BactD003 - RBS/TTC for Yeasts, Moulds, Fungi & TVC for food and manufacturing industry
- BactD004 - MAC/TTC for Coliforms & TVC in process waters
- BactD005 - Chromogenic/TTC for E.coli, P.aeruginosa & TVC for enumeration of E.coli
- BactD006 - PDM/MAC for Pseudomonas species & Coliforms for potable water, pools & spas
- BactD007 - PDM/TTC for Pseudomonas species & TVC for Closed water systems & pools/spas
- BactD008 - SRB Tube test for Sulphate reducing bacteria in Closed water systems
- BactD009 - NRB Tube test for Nitrite reducing bacteria in Closed water systems



Flexible paddle

For dipslide and tube test recording and reporting use our **Dipslide Comparator App** found on the apple and android stores



DIPSLIDES AND INCUBATORS

For Incubation of dipslides
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The range of incubators are designed to suit many applications.

For small applications we recommend the *BactEDT057* which holds 2 dipslides and is preset to 30°C.

For medium applications use *BactEDT055* which holds 10 dipslides and is highly portable. It has a built in temperature gauge, adjustable temperature and also works on multivoltage.

Our most popular site based incubator for medium sized applications is *BactEDT059* which holds 18 slides. It comes with a tray, temperature gauge and adjustable temperature ideal for NRB/SRB tests. This unit is only offered with a 240V supply.

For medium to large applications use *BactEDT052* which holds 25 slides. It has a built in temperature gauge, variable temperature setting and also works on multivoltage.

For large applications use *BactEDT093* which holds 45 slides and many NRB/SRB tests. It has a built in temperature gauge with an adjustable temperature and also works on multivoltage.

Incubator Order Codes :

Code	Number of dips
BactEDT057	2
BactEDT055	8
BactEDT059	18
BactEDT052	25
BactEDT093	45
BactEDT-12V	12V car-lead for BactEDT057/BactEDT055/ BactEDT052/BactEDT093



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BactEDT057



BactEDT055



BactEDT059



BactEDT052



BactEDT093

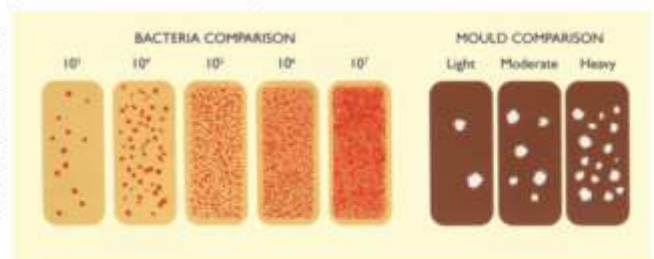
Dipslides

Sampling & Testing Notes

Delivering simplicity and affordability through innovation.

Since early 2001 the weekly monitoring of bacteria levels in cooling water has been recommended by many legislators and professional authorities as a visual performance indicator to both system and treatment regime. This allows the user to gauge how effective a chemical or biocide product is in the particular application and a trend can be quickly established identifying changes and taking quick remedial action where required. It should be noted from the outset that Dipslides alone do not detect Legionella as a select micro-organism, however it is generally accepted that overall bacteria levels in excess of 10^4 are considered able to support Legionella and obviously a serious risk.

The dipslide consists of a plastic paddle with culture media on each side, the tube keeps the media both moist & sterile until required. The product most suitable is a slide based on a standard nutrient agar with a red dye supplement added during production, this has the advantage of showing any viable colonies as red dots, easily identified and compared against the comparison chart.



IMPORTANT - Monitoring is not a substitute for a treatment regime, it is always best to seek the advice of a professional water treatment or environmental company who will supply a risk assessment together with the required treatment system. The advantage of your weekly monitoring program is you can see how well the system is performing and identify any problems in house in-between visits. Counts should **never exceed 10^4** at any time.

Sampling & Testing with Dipslides

1 - Prior to use please keep the slides in a cool place (not a fridge) at around 10 - 15°C.

Dipslides have a typical shelf life



of 8 - 9 months. Once the dipslide is opened care must be taken not to touch the media or expose the media to the atmosphere in order to prevent false contamination.

2 - Ideally the sample should be taken in a clean container rinsed with the water to be tested. You can also sample directly from the



tower sump ensuring you do not touch any of the surfaces. Submerge the dipslide to the top of the culture media for around 2 seconds and then shake gently to remove excess fluid replacing in the tube.

3 - Place the slide into the incubator, the correct temperature is 30°C for a period of 48 hours. Incubation is vital for accurate



results. The dipslides should only be incubated in an incubator. If you are mobile you must ensure you incubate the dipslides in a dual voltage incubator which will operate in a vehicle.

DipSlides

Application, Storage & Disposal

Storage

Dipslides should be stored in cool dry conditions, but not in a refrigerator. This storage method ensures the dipslides do not suffer from condensation or de-hydration of the agar.

Shelf Life

Dipslides have a typical use by date of 9 months dependent of manufacture cycle, they can be used after this date as long as no contamination or visible shrinkage shows on the agar surface - excess water in the bottom of the slide would indicate the storage temperature was too high.

Application

Dipslides can be used to monitor microbial growth wherever the potential may exceed 1000 (10^3) organisms per ml of sample fluid.

- Industrial Waters:** For detection of slime forming bacteria in cooling & industrial waters, storage tanks and for evaluating biocide performance in treated systems.
- Industrial Fluids:** For detection of bacteria & moulds in metal-working fluids, paper processing waters, fuel tanks etc.
- Environmental Hygiene:** To monitor the surface contamination within domestic or institutional sites.
- Leather Industry:** For detection of spoilage organisms in hide and skin soaking liquors.

Product Safety - MSDS

Dipslides when new are non-hazardous.

Disposal of Used Slides

Contaminated slides should be sterilised before disposal by immersing in a disinfectant or by autoclave or incineration. After soaking in a disinfectant for 24 hours the dips can be disposed of in any normal non hazardous waste service.

Quality Control

Dipslides are manufactured in a clean environment and stored at constant temperature prior to despatch. All materials and each batch are traceable from source to our customer.

Getting the best from dipslides

Dipslides offer a simple and convenient method of bacteria monitoring without the need for specialist microbiological skills for both sampling and interpretation. In order to achieve the best results please follow the following recommendations prior to use.

Store in a cool place where temperature remains fairly constant, a cupboard in a store room is ideal where heating is only minimal; the best temperature is around 12-15⁰C. Needless to say storage in direct sunlight or against a warm surface such as a wall opposite a radiator will dramatically reduce the life of the slides and must be avoided; draughts also result in temperature differential and cause excessive condensation to build up in the tube. Water building up in the tube in excess of 5mm indicates storage may not be ideal.

Pack securely when shipping, if the box of slides is loose in an outer carton then it is almost like not using the seatbelt in a car! Jiffy bags are not recommended for posting odd boxes.



The picture shows classic dislodgement of agar due to rough handling, a box of slides will actually withstand falling from table height but during freight some packages seem to be subjected to extreme shock so careful packing is essential

Do not refrigerate! This would seem logical to store slides in this way but in fact the sudden change in temperature downwards causes the air in the tubes to contract so rapidly that the seal around the paddle top can let a small amount of air into the slide and with this comes atmospheric contamination such as spores and moulds.

Transport in vehicles is also another important area to consider – if slides are left in a car boot the temperature differential can be very wide, especially if the sun is strong and again this will create the same problems as refrigeration but on the opposite scale. If you need to carry slides in your vehicle for in excess of a couple of days a cool box **without** the ice pack is an ideal storage method and prevents the product moving around excessively. Keep slides not required immediately indoors.



This slide has a single yeast contamination on the malt extract agar, whilst previously clean it had spent 2 weeks unprotected in a vehicle during the warm September month! 5mm of water had also developed in the bottom of the tube.

Rotation of stock is vital, whilst slides remain good throughout the shelf life if stored correctly pulling the oldest to the front when re-stocking is always the best method.