

# TSA/MALT D012 Dipslide

The TSA/MALT dipslide allows convenient enumeration of aerobic microorganisms (TSA) as well as fungi, moulds and yeasts in a single test. The dipslide is prepared with Tryptone soy agar + TTC on one side (responsive to aerobic microbes) and an acidic malt agar which selects for the growth of yeasts and moulds. The additive in the nutrient agar reacts with enzymes produced in aerobic respiration to produce a colour change from white to red, allowing easy enumeration.

## SAMPLING: Fluids

The sample should be taken by immersing both sides of the paddle into the fluid to be tested, it having first been removed from the sterile container. Excess sample should be gently shaken from the paddle before it is replaced in the container.

## SAMPLING: Surfaces

The sample should be taken by allowing direct contact between the agar surface and the test material. The paddle is flexible and can be bent at the upper end to allow both surfaces to come into intimate contact. Bacterial recovery rate is about 50% so that sweeping an area approximately twice that of the paddle will give a more accurate result.

## INCUBATION

Incubate at 30°C-35°C for 24-48 hours. For Yeast and Moulds leave for up to 5 days.

## DISPOSAL

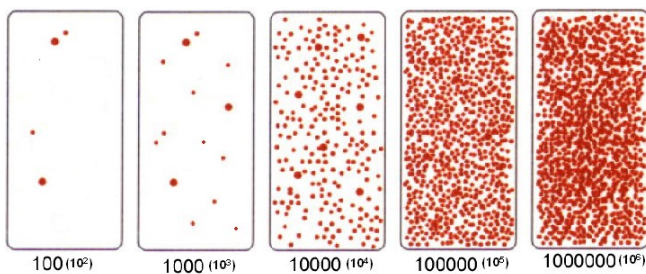
Used slides should be incinerated or autoclaved. Alternatively, immerse in a 10% bleach solution for 24 hours.

Organism	Colony Size (mm)	Shape & Surface	Colour	Comments
<i>Candida albicans</i>	1.0-3.0	CV.E.D	White	—
<i>Mucor</i> spp.	Spreading	FED	White	—
<i>Penicillium notatum</i>	Spreading	Fluffy	Green velvet	—
<i>Aspergillus flavus</i>	Spreading	—	White/ Black	Yellow/ White
<i>Aspergillus niger</i>	Spreading	—	White/Black	Yellow/ Centre

CV.E.G = Convex entirely glossy, FED = Full entire dull

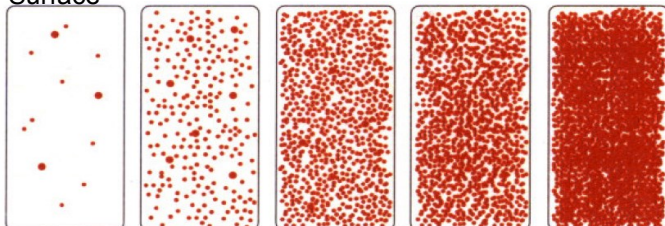
## AEROBIC MICROBES - TSA

### Fluids



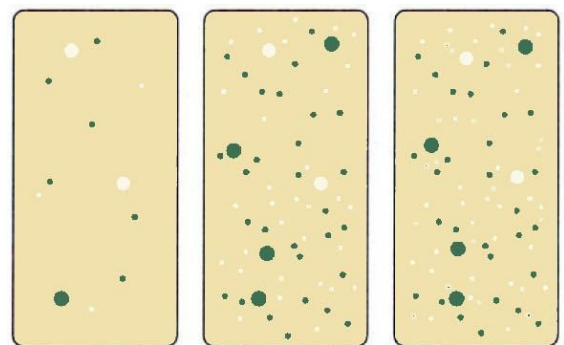
Approx Colony Count per ml

### Surface



Very Light    Light    Moderate    Heavy    Very Heavy

## YEASTS AND MOULDS



Light                      Medium                      Heavy

**White/ Buff**  
*Mucor* spp., *Candida* spp.  
**White/ Black**  
*Aspergillus flavus*, *Aspergillus niger*  
**Green**  
*Penicillium notatum*