

TTC/ROSE D003 Dipslide

The TTC/ROSE dipslide allows convenient enumeration of aerobic microorganisms (TVC) including yeasts and moulds in a single test. The dipslide is prepared with nutrient TTC agar on one side (responsive to aerobic microbes) and an rose bengal agar with chloramphenicol which selects for yeasts and moulds, for use in the food industry. The TTC/ROSE dipslide is also ideal for use in detection of hydrocarbon utilizing micro-organisms found in fuel storage. These micro-organisms cause block-ages to fuel filters and the acidic metabolites can cause tank erosion. 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: Air

The sample should be taken by inverting the paddle and inserting in the vial. Let it sit for 15 minutes exposed to the air, then replace paddle in the vial and seal tightly.

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, when full enumeration should be completed.

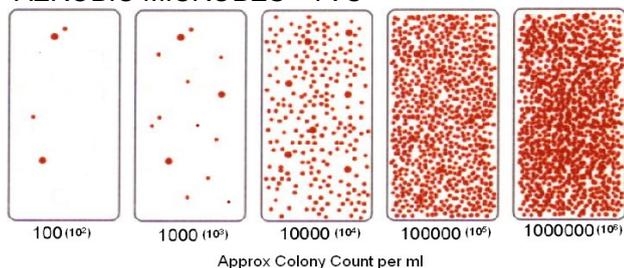
DISPOSAL : Used slides should be incinerated or autoclaved. Alternatively, immerse in a 10% bleach solution for 24 hours.

Organism	Colony Size (mm)	Shape & Surface	Colour	Comments
<i>Rhizopus</i> spp.	<13.5	Fluffy	White/ Pink	—
<i>Mucor</i> spp.	<12.5	Fluffy	White	—
<i>Fusarium</i> spp.	<10	Fluffy	White/ Pink	—
<i>Aspergillus flavus</i>	<8	Flat & hyphae	Yellow/ green	Hyphae
<i>Candida</i> spp.	<1.5	CV.E.G	White	—

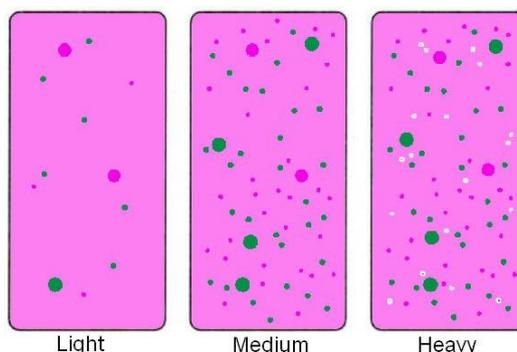
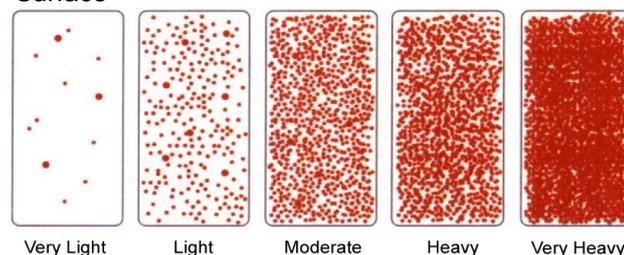
CV.E.G = Convex entirely glossy, FED = Full entire dull

YEASTS AND MOULDS

AEROBIC MICROBES - TVC



Surface



White/ Pink
Rhizopus spp., *Mucor* spp., *Fusarium* spp. *Candida* spp.
Yellow/ green
Aspergillus flavus