

PD033 Mannitol Salt Agar (MSA)

PPD033; Mannitol Salt Agar (MSA); 90 mm Petri dish with culture medium

Detection, Isolation and Enumeration of pathogenic staphylococci in food,
nonsterile pharmaceuticals and clinical specimens

For in *vitro* diagnostic use

Available: 90mm Petri dishes (10 in a sleeve)

Appearance: : pink, slightly opalescent.

Storage: 2 – 8°C

Composition in g/L

Peptone 10.0 - Beef extract 1.0 – NaCl 75.0 – Mannitol 10.0 – Phenol Red 0.025 – Agar 15.0

Complies: USP, ISO/DIS, 11014

Mannitol salt agar (MSA) is both a selective and differential medium. It contains 7.5% sodium chloride and thus selects for those bacteria which can tolerate high salt concentrations. MSA also distinguishes bacteria based on the ability to ferment the sugar mannitol, the only carbohydrate in the medium. Most unwanted bacteria are inhibited with the exception of some halophilic marine organisms. Presumptive coagulase-positive staphylococci produce colonies surrounded by bright yellow zones while non-pathogenic staphylococci produce colonies with reddish purple zones.

Reading of Plate

- Easy to differentiate: *Staphylococcus aureus* forms yellow colonies with yellow halo while *Staphylococcus epidermidis* forms pink colonies with medium turning pink.





Hy Laboratories Ltd.

6 Menachem Plaut St., Park Tamar, Rehovot 7670606, Israel

Tel. +972.8.9366475 Fax. +972.8.9366474

hylabs@hylabs.co.il | www.hylabs.co.il

Performance & Limitations

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Pathogenic microorganisms, including hepatitis viruses and Human Immunodeficiency Virus, may be present in clinical specimens. Standard precautions and institutional guidelines should be followed in handling all items contaminated with blood and other body fluids. After use, prepared plates, specimen containers and other contaminated materials must be sterilized by autoclaving before discarding.

Warnings

- Do not use plates if they show any evidence of contamination or deterioration
- Do not use the product beyond its expiry date