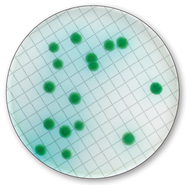
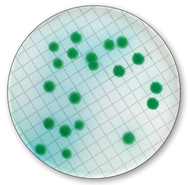
Milliflex® Growth Media Selection Guide

Bacterial Selective



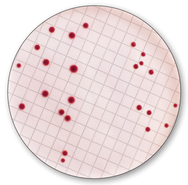
Cetrimide Agar

Catalogue Number	MXSMCET48
Application	Isolation and identification of Pseudomonas aeruginosa found in various types of water.
Incubation Time & Temperature	Harmonized EP/USP: 18 - 72 h at 30 - 35°C
Typical Colony Appearance	P. aeruginosa appear as green to blue colonies with fluorescence under UV wavelength.
pH at 25 °C	7.2 ± 0.2



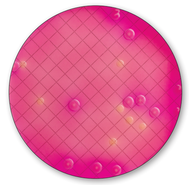
Cetrimide Agar with Naladixic Acid

Catalogue Number	MXSMCET24
Application	The combination of cetrimide with sodium nalidixate improves the recovery of Pseudomonas aeruginosa and inhibits growth of Klebsiella, Proteus, and Providencia species.
Incubation Time & Temperature	ISO: 48 h at 37°C
Typical Colony Appearance	P. aeruginosa appear as green to blue colonies with fluorescence under UV wavelength.
pH at 25 °C	7.1 ± 0.2



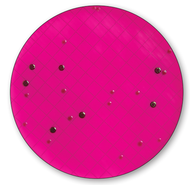
KF Strep Agar

Catalogue Number	MXSMKFS48
Application	Designed for the recovery of Enterococci found in various types of water.
Incubation Time & Temperature	18 - 72 h at 30 - 35°C
Typical Colony Appearance	Enterococci colonies appear red or pink.
pH at 25 °C	7.2 ± 0.2



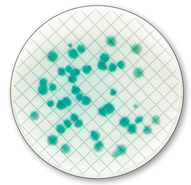
MacConkey Agar

Catalogue Number	MXSMCMC2
Application	For the selective isolation, cultivation and differentiation of lactose from non-lactose fermenting Gram negative enteric bacteria. It can also be used in examining water for coliforms.
Incubation Time & Temperature	Standard Methods: 24+/- 2 h at 35°C Harmonized EP/USP: 18 - 72 h at 30 - 35°C
Typical Colony Appearance	Lactose fermenting organisms will appear red. Non-lactose fermenters will appear colorless to white or yellow.
pH at 25 °C	7.1 ± 0.2



m-Endo LES Agar

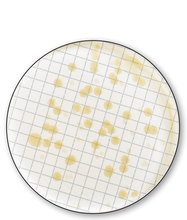
Catalogue Number	MXSMEND48
Application	Used to detect total coliform population in water.
Incubation Time & Temperature	Standard Methods: 22 - 24 h at 35°C
Typical Colony Appearance	Coliform colonies appear deep reddish with distinct green metallic sheen.
pH at 25 °C	7.2 ± 0.2



Pseudomonas Isolation Agar (PIA)

Catalogue Number	MXSMPIA48
Application	Selective medium for isolating Pseudomonas species from water samples. It is also differential for P. aeruginosa by allowing formation of soluble blue-green pyocyanin pigment.
Incubation Time & Temperature	18 - 72 h at 35°C
Typical Colony Appearance	Most Pseudomona aeruginosa will produce blue to green colonies.
pH at 25 °C	7.0 ± 0.2

Total Viable Organism/Total Viable Count



Heterotrophic Plate Count (HPC) Agar

Catalogue Number	MXSMHPC48
Application	Used for the recovery of heterotrophic plate count bacteria found in various types of water, especially high purity water and treated potable water. It is also suitable for other water samples with low counts.
Incubation Time & Temperature	48 - 72 h at 30 – 35 °C
Typical Colony Appearance	Clear to white colonies; some may produce pigment.
pH at 25 °C	7.1 ± 0.2

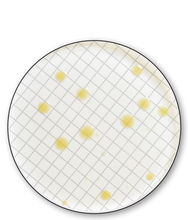
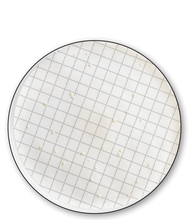


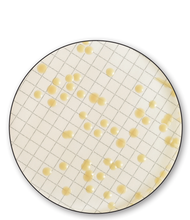
Plate Count Agar

Catalogue Number	MXSMPCA48
Application	Designed for total microbial count in water and other samples.
Incubation Time & Temperature	48 - 72 h at 30 – 35 °C
Typical Colony Appearance	Clear to white colonies; some may produce pigment.
pH at 25 °C	7.0 ± 0.2



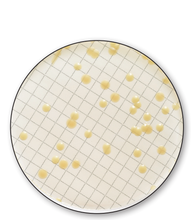
R2A

Catalogue Number	MXSMCRA48
Application	This low nutrient agar is used for the recovery of stressed heterotrophic plate count bacteria found in various types of water.
Incubation Time & Temperature	Standard Methods: 5 - 7 days at 20 - 28°C EP: Not less than 5 days at 30 - 35°C
Typical Colony Appearance	Clear to white colonies; some may produce pigment.
pH at 25 °C	7.2 ± 0.2



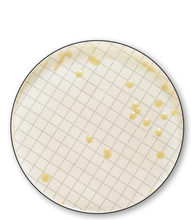
Tryptic Soy Agar (TSA)

Catalogue Number	MXSMCTS48
Application	Used for the recovery of a broad range of fastidious, heterotrophic microorganisms such as common aerobic and facultative anaerobic bacteria found in various types of water.
Incubation Time & Temperature	Harmonized EP/USP: 3 - 5 days at 30 - 35°C
Typical Colony Appearance	Clear to white colonies; some may produce pigment.
pH at 25 °C	7.3 ± 0.2



Tryptic Soy Agar with Polysorbate 80 and Lecithin

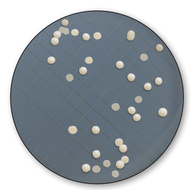
Catalogue Number	MXSMTLP48
Application	Used for determining the efficiency of the sanitation of containers, equipment and surfaces as well as for water miscible cosmetic products. It contains two commonly used neutralizers: Lecithin and Polysorbate 80.
Incubation Time & Temperature	18 - 72 h at 35°C
Typical Colony Appearance	Clear to creamy white colonies; some may produce pigment.
pH at 25 °C	7.3 ± 0.2



Tryptone Glucose Extract Agar

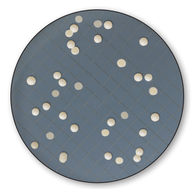
Catalogue Number	MXSMTGE48
Application	Used for the recovery of microorganisms in water, wastewater and dairy products.
Incubation Time & Temperature	18 - 120 h at 20 - 35°C
Typical Colony Appearance	Clear to creamy white colonies; some may produce pigment.
pH at 25 °C	7.0 ± 0.2

Yeast and Mold



Sabouraud Dextrose Agar

Catalogue Number	MXSMCSD48
Application	Designed for the recovery of a broad range of fungi (yeast and mold) found in various types of water. Some fungi may be inhibited by the acidic pH of the medium.
Incubation Time & Temperature	Harmonized EP/USP: 5 - 7 days at 20 - 25°C
Typical Colony Appearance	Yeast produces white colonies with creamy texture. Mold colonies are rough textured and/or filamentous. Bacteria capable of growth produce clear to white colonies.
pH at 25 °C	5.6 ± 0.2



Sabouraud Dextrose Agar with Chloramphenicol

Catalogue Number	MXSMCSP48
Application	Designed for the recovery of a broad range of fungi (yeast and mold) found in various types of water. Chloramphenicol will inhibit most bacteria.
Incubation Time & Temperature	5 - 7 days at 20 - 25°C
Typical Colony Appearance	Yeast produces white, creamy colonies. Mold colonies are rough textured and/or filamentous.
pH at 25 °C	5.6 ± 0.2

Certificates of quality are available on **www.merckmillipore.com**
Simply type the catalogue number in the search bar.

KEY

USP	United States Pharmacopoeia
EP	European Pharmacopoeia
Standard Methods	Standard Methods for the Examination of Water and Waste Water
ISO®	International Organization for Standardization

NOTE

- Suspect colonies should be verified using identification methods.
- Agar is pre-poured into Milliflex® agar cassettes and used with the Milliflex® System.

Lit. No. PF4459EN00 w286198 09/2015 Job No. BM-15-11850

Merck Millipore is a business of MERCK