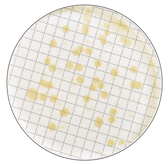
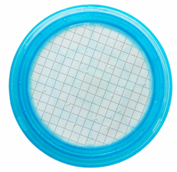
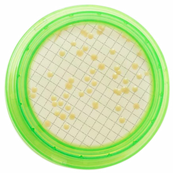
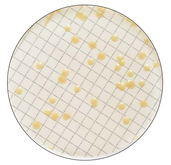
Milliflex Oasis® System Media Plates Selection Guide

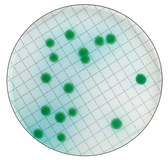
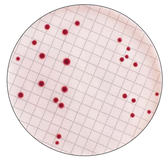
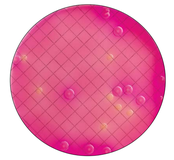
Total Viable Organism/ Total Viable Count

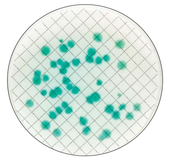


	Heterotrophic Plate Count (HPC) Agar	Plate Count Agar	R2A	Tryptic Soy Agar (TSA)	Tryptic Soy Agar with Polysorbate 80 and Lecithin
Cat. No.	**MXSMHPC48**	**MXSMPCA48**	**MMSMCRA48***	**MMSMCTS48***	**MXSMTLP48**
Application	Used for the recovery of heterotrophic plate count bacteria found in various types of water, especially high-purity water and treated potable water. It is also suitable for other water samples with low counts.	Designed for total microbial count in water and other samples.	This Milliflex Oasis® low-nutrient Agar is used for the recovery of stressed heterotrophic plate count bacteria found in various types of water.	Milliflex Oasis® Media Plate 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.	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	48–72 h at 30–35 °C	48–72 h at 30–35 °C	Standard Methods: 5–7 days at 20–28 °C EP: No less than 5 days at 30–35 °C	Harmonized EP/USP: 3–5 days at 30–35 °C	18–72 h at 35 °C
Typical Colony Appearance	Clear to white colonies; some may produce pigment.	Clear to white colonies; some may produce pigment.	Clear to white colonies; some may produce pigment.	Clear to white colonies; some may produce pigment.	Clear to creamy white colonies; some may produce pigment.
pH at 25 °C	7.1 ± 0.2	7.0 ± 0.2	7.2 ± 0.2	7.3 ± 0.2	7.3 ± 0.2

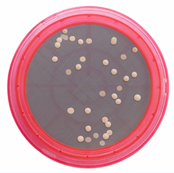
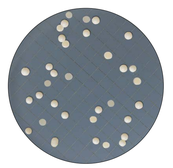
Bacterial Selective



	Cetrimide Agar	KF Strep Agar	MacConkey Agar	m-Endo LES Agar	Pseudomonas Isolation Agar (PIA)
Cat. No.	**MXSMCET48**	**MXSMKFS48**	**MXSMCMC24**	**MXSMEND48**	**MXSMPIA48**
Application	Isolation and identification of *Pseudomonas aeruginosa* found in various types of water.	Designed for the recovery of *Enterococci* found in various types of water.	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.	Used to detect total coliform population in water.	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	Harmonized EP/USP: 18–72 h at 30–35 °C	18–72 h at 30–35 °C	Standard Methods: 24 +/- 2 h at 35 °C Harmonized EP/USP: 18–72 h at 30–35 °C	Standard Methods: 22–24 h at 35 °C	18–72 h at 35 °C
Typical Colony Appearance	*P. aeruginosa* appear as green to blue colonies with fluorescence under UV wavelength.	*Enterococci* colonies appear red or pink.	Lactose-fermenting organisms will appear red. Non-lactose fermenters will appear colorless to white or yellow.	Coliform colonies appear deep reddish with distinct green metallic sheen.	Most *Pseudomona aeruginosa* will produce blue to green colonies.
pH at 25 °C	7.2 ± 0.2	7.2 ± 0.2	7.1 ± 0.2	7.2 ± 0.2	7.0 ± 0.2

Yeast and Mold

	Sabouraud Dextrose Agar	Sabouraud Dextrose Agar with Chloramphenicol
Cat. No.	**MMSMCSD48***	**MXSMCSP48**
Application	The Milliflex Oasis® Media Plate is designed for the recovery of a broad range of yeast and mold found in various types of water. Some fungi may be inhibited by the acidic pH of the medium.	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	Harmonized EP/USP: 5–7 days at 20–25 °C	5–7 days at 20–25 °C
Typical Colony Appearance	Yeast produces white colonies with a creamy texture. Mold colonies are rough-textured and/or filamentous. Bacteria capable of growth produce clear to white colonies.	Yeast produces white, creamy colonies. Mold colonies are rough-textured and/or filamentous.
pH at 25 °C	5.6 ± 0.2	5.6 ± 0.2

Key

USP
United States Pharmacopeia

EP
European Pharmacopoeia

Standard Methods
Standard Methods for the Examination of Water and Wastewater

ISO®
International Organization for Standardization

Note

Milliflex Oasis® Media Plates and Milliflex® Agar Cassettes are compatible with the Milliflex Oasis® Funnel.

*To learn more about the Milliflex Oasis® System, visit **SigmaAldrich.com/Milliflex-Oasis**

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