

## Technical Data Sheet

### MC-Media Pad® *E.coli* and Coliform

Ordering number: 1.32357.0001

#### General

The MC-Media Pad® is a pre-sterilized, ready-to-use dry culture device, simplifying testing and minimizing the quantity of waste.

#### Mode of Action

The MC-Media Pad® is composed of a unique adhesive sheet, a test pad coated with medium and water absorption polymer, and a transparent cover film.

It is coated with selective medium and chromogenic substrate for specific detection. Once the liquid sample is inoculated onto the test pad, the sample diffuses through the whole pad by capillary action. The medium re-constitutes automatically.

#### Certification

AOAC Performance Tested Method<sup>SM</sup> study (Certificate number 070901)

#### Application of Use

1. Open the aluminum bag, and remove the MC-Media Pad®.  
If necessary, write information on the cover film.
2. Lift the transparent cover film and pipette 1.0 mL of sample solution onto test pad.  
(It is recommended to lift the cover film diagonally for easy and secure re-sealing.)
3. Close the cover film and lightly press the edges of film to seal.
4. Incubate test plate at 35 ±1 °C for 24 ±2 hours.
5. Re-seal the opened bags and store at 2–15 °C for up to 4 weeks.

#### Interpretation

Count all colored colonies (blue-green/blue and red-purple/Navy) as coliform  
For *E. coli* count, only red-purple/navy colored colonies should be counted

## Storage and Shelf Life

The product can be used for tests until the expiry date if stored upright, protected from light and properly sealed at 2 to 15 °C.

## Disposal

The used pad must be decontaminated by autoclaving or boiling, and disposed according to local regulations for waste.

## Quality Control

Function	Control strains	Incubation	Expected results
Productivity	<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	18-24 h , 35-37 °C	≥50%, Blue to Violet colonies
	<i>Enterobacter aerogenes</i> ATCC 13048 (WDCM 00175)		≥50%, Blue-green (Turquoise ) colonies
	<i>Citrobacter freundii</i> ATCC 43864 (WDCM 00006)		≥50%, Blue-green (Turquoise ) colonies
Selectivity	<i>Enterococcus faecalis</i> ATCC 19433 (WDCM 00009)		Total Inhibition
	<i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)		
Specificity	<i>Pseudomonas aeruginosa</i> ATCC 10145 (WDCM 00025)	Moderate growth, colorless to yellowish	

Please refer to the actual batch related Certificate of Analysis.

## Ordering Information

Product	Cat. No.	Pack size
<b>MC-Media Pad®</b> <i>E.coli</i> and Coliform	1.32357.0001	100pads ( 4x25 pads)

Merck, the vibrant M, MC-Media Pad, Millipore, and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates.

Detailed information on trademarks is available via publicly accessible resources.

© 2020 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

Lit. No. MK\_PG3221EN

