



## Data Sheet

# EZ-Pad™ Nutrient Media Pad Kit

Comprehensive kit for fast, easy identification and enumeration of *E-coli* and coliforms in water



Millipore's EZ-Pad is a lactose triphenyltetrazolium chloride (TTC) tergitol nutrient media pad designed for the detection of *Escherichia coli* and coliform bacteria in water. *E-coli* and coliforms are easily identified (yellow colonies with yellow halos) and enumerated on the Lactose TTC tergitol pads. Lactose negative bacteria are either inhibited or develop as small reddish colonies.

## CONVENIENT AND EASY-TO-USE KIT

This comprehensive EZ-Pad nutrient media pad test kit includes individual sterile dehydrated media pads in Petri dishes and a cartridge of EZ-Pak® 0.45 µm gridded mixed esters of cellulose membranes. With the convenient easy-to-use EZ-Pak dispenser, users are able to quickly remove and unwrap individual sterile EZ-Pak membranes with forceps, eliminating the risk of accidental contamination.

## Features

- Sterilized and ready-to-use
- Consistent performance
- Reliable results

## CONSISTENT PERFORMANCE AND RELIABLE RESULTS

With the EZ-Pad kit, autoclaving and mixing of complicated compounds are eliminated. Analysts simply:

1. Re-hydrate a nutrient media pad using 3.0 mL of sterile, distilled or de-mineralized water.
2. Filter the sample through the EZ-Pak membrane.
3. Place the membrane on the re-hydrated nutrient media pad.
4. Incubate for 24 hours at 36 °C, then identify and enumerate.

## CONFORMS TO INTERNATIONAL STANDARDS

The EZ-Pad nutrient media pads conform to the requirements published in the Standard Methods for the Examination of Water and Wastewater, specifically in regard to thickness, pH, and media absorption capability.

The pads also meet the recommended formulation in accordance with standard methods:

- Council Directive on the Quality of Water Intended for Human Consumption (98/83/EC)
- Water quality-detection and enumeration of *Escherichia coli* and coliform bacteria (ISO® 9308-1: 2000) Part 1: Membrane filtration method.

ISO 9308-1:2000 describes a reference method (Standard Test) for the detection and enumeration of *Escherichia coli* and coliform bacteria in water for human consumption. The Standard Test is based on membrane filtration, subsequent culture on a differential agar medium and calculation of the number of target organisms in the sample.

## CONSISTENT PERFORMANCE

The EZ-Pad nutrient media pads are designed, developed and manufactured in accordance with a Quality Management System approved by an accredited registering body of an ISO 9001:2000 Quality Systems Standard. Each box of nutrient media pads is shipped with a Certificate of Quality.



Figure 1. EZ-Pak dispenser for added safety and convenience.

## SPECIFICATIONS

### Materials of Construction

Nutrient pad:	Biologically inert cellulose cardboard
Petri dish:	Polystyrene
Bag:	Polyethylene
Membrane:	Mixed esters of cellulose

### Dimensions

Nutrient pad:	50 mm diameter
Petri dish:	60 mm diameter
Membrane:	47 mm diameter

### Characteristics

Media color:	Pale green
pH at 25 °C:	8.5 ±0.2
Membrane color:	White

### Batch Ingredients

per Liter of Water (One liter produces ~ 667 pads)

Peptone:	10.0 g
Yeast extract:	6.0 g
Meat extract:	5.0 g
Lactose:	20.0 g
Bromothymol Blue:	0.05 g
Tergitol-7:	0.1 g
TTC:	0.025 g

### Sterilization

Gamma irradiation in conformance with ISO 11137

Growth performance: EZ-Pad nutrient media pads were incubated at 36 °C for 24 hours with two microorganisms and observed for growth.

Test Organism	ATCC	Growth
<i>Escherichia coli</i>	8739	Growth
<i>Enterobacter aerogenes</i>	13048	Growth

## ORDERING INFORMATION

Description	Qty/Box	Cat. No.
<b>EZ-Pad Nutrient Media Pad Kit</b>	<b>150</b>	<b>EZPD LT1 50</b>
Includes: Lactose TTC dehydrated nutrient media pads packed in individual Petri dishes and a cartridge of 0.45 µm EZ-Pak 47 mm diameter white gridded mixed esters of cellulose membranes (EZHAWG474*)		
<b>EZ-Pak Membrane Dispenser*</b>	<b>1</b>	<b>EZDI SP001</b>

\* EZ-Pak membranes cannot be used without an EZ-Pak dispenser. If a dispenser is not available in your laboratory, please place an order for the EZ-Pak dispenser with your initial EZ-Pad Nutrient Media Pad Kit purchase.

### Related Products

Description	Qty/Box	Cat. No.
<b>Microfil® Filtration Manifold and Support System</b>		
1 Piece	1	MIAC01P01
3 Piece	1	MIAC03P01
<b>Microfil Funnels with .45 White Gridded Mixed Esters of Cellulose Membrane</b>		
100 mL	36	MIHA WGO 36
100 mL	72	MIHA WGO 72
250 mL	90	MIHA WGO 90
<b>Microfil Funnels with EZ-Pak Membranes</b>		
250 mL	150	MZHA WG2 51
100 mL	150	MZHA WG1 01

## TO PLACE AN ORDER OR RECEIVE TECHNICAL ASSISTANCE

For additional information call your nearest Millipore office:

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