

СИСТЕМА ОБНАРУЖЕНИЯ EZ-FLUO



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EZ-Fluo™ Rapid Detection System

Introduction

EZ-Fluo™ System is a rapid fluorescence-based technology for fast quantitative detection of contaminants over a broad range of filterable matrices.

This easy-to-use and simple system can detect viable microorganisms filtered on a membrane down to one CFU per sample. The non-destructive method allows the identification, by any method, of any microorganisms detected during the initial fluorescence reading. Sample preparation is performed using Microfil®, EZ-Pak®, and S-Pak® filtration systems and membranes that ensure consistent and reliable results.

Chemistry of the Reaction

The EZ-Fluo™ system uses proven technology based on a universal enzymatic fluorescent staining of viable microorganisms.

After a filtration step, all microorganisms retained on the membrane are stained by a fluorescence viability marker. The reaction consists of an enzymatic cleavage by active microbial metabolism of a nonfluorescent substrate. Once cleaved by the cell's metabolism, the substrate liberates free fluorochrome into the microorganism cytoplasm that remains in the cell due to its hydrophilic nature.

The signal is thereby naturally amplified by accumulation of the fluorochrome inside the cells and can be easily detected by exposure to the excitation wavelength of the fluorescence dye in the EZ-Fluo™ Reader and visually counted or counted using the EZ-Fluo™ Camera and dedicated software.

Principles of the Procedure

The procedure is easy and requires limited training and skills: sample contaminants are collected by membrane filtration using the Microfil® Filtration System.

After a short incubation time, media plates are removed from the incubator. Each membrane is then transferred onto a cellulose pad that has been pre-soaked with staining solution. These are then put in the incubator for 30 minutes.

Fluorescent micro-colonies can be counted two ways: directly through the viewing window of the EZ-Fluo™ reader, or using the EZ-Fluo™ Camera and dedicated software, which projects the image onto a computer screen. After reading, membranes can be re-incubated on media for later collection and identification of microorganisms if contamination of the sample was detected.

Specifications and Operating Requirements

Dimensions (nominal)	Component	Length	Width	Height	
	Reader	24.9 cm (9.8 in.)	14.2 cm (5.6 in.)	12.5 cm (4.9 in.)	
	Camera	9.7 cm (3.8 in.)	6.6 cm (2.6 in.)	11.4 cm (4.5 in.)	
Weight (nominal)	Component		Weight		
	Reader		4.4 kg (9.7 lbs.)		
	Camera		0.5 kg (1.1 lb.)		
Voltage	Component		Supply Voltage Input		Supply Voltage Output
	Reader		100V – 240 V 50 Hz – 60 Hz		24V direct current
	Camera		Powered by the computer		
Power	Component	Consumption		Power	
		Nominal	Maximal	Nominal	Maximal
	Reader	670 mA	2080 mA	16 watts	50 watts
	Camera	200 mA	430 mA	1 watt	2.15 watts
	NOTE: The reader is supplied with its power cord according to region.				
Environmental Operating Temperature	15 °C to 40 °C (59 °F to 104 °F)				
Humidity	< 90 %				
Altitude	< 3,000 m (9,842 ft.)				
Regulatory Information	- Electromagnetic compatibility 2004/108/EC - Restriction of the use of certain Hazardous Substances in electrical equipment (RoHS) 2002/95/EC We certify that the EZ-Fluo™ Reader and the EZ-Fluo™ Camera were designed and manufactured in application of the following European Council directives:				
Materials of Construction	Component	Materials of Construction			
	Reader				
	Housing	Painted aluminum sheet 1050			
	Optical chamber	304L stainless steel			
	Handle	304L stainless steel			
	Optical filter	Glass			
	LED protector	Transparent polycarbonate			
	Foot	Polyvinylchloride (PVC)			
	Labels	Polyester			
	Screen	Protector polyester			
	Camera				
	Front plate	304L stainless steel			
	Housing	Painted aluminium alloy			
	Window	Glass			
	Light Guard	Clear polymethyl methacrylate (PMMA)			

Ordering Information

Description	Qty/Pk	Catalog No.
EZ-Fluo™ System Kits		
EZ-Fluo™ System standard kit including 1 reader, 1 camera and installation CD	1	EZFKIT001WW*
EZ-Fluo™ Hardware		
EZ-Fluo™ reader	1	EZFREAD01WW*
EZ-Fluo™ camera	1	EZFCAM001
EZ-Fluo™ Accessories		
EZ-Fluo™ validation protocol, US letter format	1	EZFLLTVP1
EZ-Fluo™ validation protocol, A4 format	1	EZFLA4VP1
Microfil® funnel dispenser 100 ml	1	MIACFD101
Microfil® funnel dispenser 250 ml	1	MIACFD201
EZ-Pak® Membrane Dispenser	1	EZDISP001
Microfil® 3 place manifold and support	1	MIAC03P01
EZ-Stream™ Pump	1	EZSTREAM1
Silicone Hose for EZ-Stream™ Pump Autoclavable Internal diameter: 9.5mm (3/8 in) Length: 5.0 m (196.8 in)	1	STREAMTUB
PVC Hose for EZ-Stream™ Pump Not autoclavable Internal diameter: 9.5mm (3/8 in) Length: 3.0 m (118.1 in)	1	XX67000034
Filter forceps	1	XX6200006
Traceability labels Label Printing Software	1000	TRLABEL01
Consumables		
EZ-Fluo™ Reagent Kit	57 tests	EZFREAG57
100 ml Microfil® funnel and 0,45 µm 47 mm black gridded S-Pak® Filters	150	MIHABG100
100 ml Microfil® funnel and 0,45 µm 47 mm white gridded S-Pak® Filters	150	MIHAWG100
250 ml Microfil® funnel and 0,45 µm 47 mm black gridded S-Pak® Filters	150	MIHABG250
250 ml Microfil® funnel and 0,45 µm 47 mm white gridded S-Pak® Filters	150	MIHAWG250
100 ml Microfil® funnel and 0,45 µm 47 mm black gridded EZ-Pak® Filters	150	MZHABG101
100 ml Microfil® funnel and 0,45 µm 47 mm white gridded EZ-Pak® Filters	150	MZHAWG101
250 ml Microfil® funnel and 0,45 µm 47 mm black gridded EZ-Pak® Filters	150	MZHABG251
250 ml Microfil® funnel and 0,45 µm 47 mm white gridded EZ-Pak® Filters	150	MZHAWG251
EZ-Pak® Filters 0.45 µm 47 mm black gridded	600	MSP000814
EZ-Pak® Filters 0.45 µm 47 mm white gridded	600	EZHAWG474
S-Pak® Filters 0.45 µm 47 mm black gridded	600	HABG047S6
S-Pak® Filters 0.45 µm 47 mm white gridded	600	HAWG047S6
Petri-Pad™ Petri dish, sterile, 47 mm	150	PD20047S0
Petri-Pad™ Petri dish, sterile, 47 mm	600	PD20047S5

*Country code to be defined at ordering step



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