ion torrent
by life technologies™

ELGA

PURELAB® flex

Life Technologies Ion PGM™ System utilizes Ion Semiconductor sequencing which relies on the detection of small pH changes due to hydrogen release during DNA synthesis. This process requires a neutral starting point prior to pH detection and one core element for the Ion PGM™ System is the neutral (7.0) pH of ultrapure water. PURELAB® flex combines deionization with UV photo oxidization and ultra filtration to provide the correct water quality for use with the Ion PGM™ System. The PURELAB flex produces water with 18.2 MΩ-cm resistivity, TOC <5 ppb and with the Point of Use BioFilter effectively removes biologically active substances thus producing the required water purity for sequencing and the Ion PGM™ System.

PURELAB® flex water purification systems are recommended by Life Technologies and have been tested and approved for performance with the Ion PGM™ System.

WATER PURIFICATION MADE EASY

Life Technologies offers two systems to meet the ultrapure water requirements: ELGA PURELAB® flex 2 or flex 3 Which you choose depends on your source of feed water and your daily water requirements.

- The PURELAB flex 2 system requires purified feed water and can meet daily water needs in excess of 10 L.
- The PURELAB flex 3 system can use tap water as a feed source and is for daily needs of less than 10 L.

PURELAB® flex features:

- Produces 18.2 MΩ-cm, Type I ultrapure water
- Maintains TOC levels of less than 5 ppb (typically <1 ppb)
- Removes endotoxins, DNase, RNase and bacteria with the Point of Use BioFilter
- Ensures confidence in water purity through real-time TOC and resistivity monitoring
- Arrives ready-to-install with all required filtration components
- Simple to use and maintain with easy to replace purification packs, filters and UVs

GIT INNOVATIONS AWARD 2010 2nd PLACE

Design Award Silver IBO 2010

reddot design award winner 2011

dba design effectiveness award winner

VEOLIA WATER Solutions & Technologies

PURELAB® flex 2

Part # PF2IONTM1

Ultrapure Water System: Produces 18.2 MΩ-cm water (ASTM Type I) from a purified feed water source and includes all items needed for installation and operation, including LC208 and LC197.

PURELAB® flex 3

Part # PF3IONTM1

Tap to Ultrapure Water System: Produces 18.2 MΩ-cm water (ASTM Type I) from a potable (tap) feed water source and includes all items needed to install, for installation and operation, including LC214 and LC197.

Accessories	Description	Part #
Pressure Regulator	Used to reduce and/or regulate the incoming feedwater pressure when greater than 22 psi. Recommended setting should be at 10 psi. For PURELAB flex 2 only.	LA652
Pre-Conditioning Kit	Pre-conditioning kit to ensure optimum performance when feed water is >1µS/cm. For PURELAB flex 2 only.	LA731
Foot Switch	In any operation in which both hands are required, the foot switch is the perfect way to add greater control by providing hands-free dispensing. For PURELAB flex 2 and 3.	LA732
Leak Detector	Prevent water damage by automatically turning off the water supply to the flex system when the sensor detects water. Includes battery, tap sieve, fittings and user manual. For PURELAB flex 2 and 3.	LA734
Wall Mounting Bracket	Wall mounting bracket/kit. To be used where bench space is a limited.	LA735

Consumables	Description	Part #
Microfilter	Microfilter Point-of-Use end filter removes particulates, colloids and bacteria for analytical grade water applications. Recommended replacement every 90 days to maintain optimum water purity. For PURELAB flex 2 and 3.	LC145
Biofilter	Biofilter Point-of-Use end filter removes pyrogens and endotoxins for molecular grade water applications. Recommended replacement every 90 days to maintain optimum water purity. For PURELAB flex 2 and 3.	LC197
Sanitization Pack	Simple sanitization procedure utilizing one single sanitization pack thus eliminating handling of harsh chemicals. Recommended sanitization every 12 months to maintain optimum water purity. For PURELAB flex 2 and 3.	LC209
UV Lamp	185/254 nm UV lamp for the reduction of TOC and destruction of bacteria. Recommended replacement every 12 -18 months to maintain optimum water purity. For PURELAB flex 2 and 3.	LC210
PURELAB flex 2 Purification Pack	Purification pack replacement cartridge for PURELAB flex 2 only. Recommended replacement every 12 months to maintain optimum water purity.	LC208
PURELAB flex 3 Purification Pack	Purification pack replacement cartridge for PURELAB flex 3 only. Recommended replacement every 6 months to maintain optimum water purity.	LC214
Composite Vent Filiter (CVF)	Composite Vent Filter (CVF) for water reservoir for PURELAB flex 3 only. Recommended replacement every 12 months.	LC216
Reverse Osmosis (RO) Module	Reverse Osmosis (RO) module for PURELAB flex 3 only. Recommended replacement every 24-36 months.	LC217

ELGA

ELGA has been a trusted name in water purification for over 75 years, pioneering innovative technologies and award winning product design for our customers. Part of the world's leading water services company Veolia Water Solutions and Technologies, ELGA has the most comprehensive range of water purification systems available for laboratory research, healthcare and diagnostics.