

**LC197 - Biofilter****ELGA Part Number: LC197**  
**Description: Biofilter****Introduction**

The ELGA LabWater Biofilter is a positively charged point-of-use filter, which is used to remove residual biologically active contaminants.

The filter can be used to achieve biological specifications when fitted to the products recommended within this product datasheet.

The Biofilter also offers the same bacterial specification as the LC134 point-of-use filter (0.2µm). It must be replaced every 90 days for optimum performance.

**Biofilter can be fitted to:**

PURELAB Option-R, Option-Q, Classic UV, Ultra Ionic and Ultra Analytic. These products incorporate technologies to control bacterial counts (e.g. UV, bacterial filtration) but do not have an ultrafilter.

Units with an ultrafilter (e.g. PURELAB Ultra Genetic, Ultra Bioscience, PURELAB Classic UF and Classic UV/UF) will already meet extended biological specifications without the Biofilter. However, the Biofilter can be used to further prevent ingress of contaminants.

**Biofilter cannot be fitted to:**

The Biofilter will not remove biological contaminants from non-purified water. Therefore it is not suitable for use with service DI, RO permeate, PURELAB Option-S, PURELAB Classic DI or PURELAB Ultra Scientific and is not recommended for these products.

## LC197 - Biofilter

### Technical Description

Type	Capsule filter
Filtration membrane	Positively charged Nylon-66
Housing	Polypropylene
Connections	Screw ¼" NPT inlet with adapter, hose-tail dispense
Sterilization	Pre-sterilized with ethylene oxide (ETO)
Dimensions	50 mm long

### Performance Data

Maximum differential pressure at 30°C	4 bar
Maximum operating temperature	80°C continuous
Micron rating for bacterial removal	0.2 µm
Particle release	Passes test as per USP XXI <788>
Extractables	Within limits specified in USPXXI
Biosafety	Passes biological test for plastics Class VI as per USPXXIII/P-1699-SUPP-8/P-4304
Bacterial counts and rejection (typical)	<10 CFU/100ml, (<0.1 CFU/ml) Log reduction = 8
Endotoxin levels and rejection (typical)	<0.001 EU/ml, Log reduction = 5
RNase levels* (typical)	<0.002 ng/ml
DNase levels* (typical)	<20 pg/ml (<0.02 pg/µl)
Water flow rate	1 l/min at 0.5 bar

\*When Biofilter is fitted with PURELAB Option-R, Option-Q, Classic UV, Ultra Ionic and Ultra Analytic

Biofilter specifications depend on its use in a suitably clean environment as a point-of-use filter with the specified types of products detailed in this data sheet. These products should be regularly sanitized, serviced and maintained according to ELGA LabWater recommendations.

The Biofilter must be replaced every 90 days for optimum performance.

### Notes:

To achieve optimum values of resistivity and TOC the Biofilter should be flushed for 15 seconds after prolonged periods without use e.g. overnight and weekends.

Due to policy of continuous improvement, specifications are subject to change.

For more information and to order your copy of the Pure LabWater Guide go to [www.elgalabwater.com](http://www.elgalabwater.com)

ELGA LabWater Global Operations  
 Lane End Industrial Park  
 High Wycombe, HP14 3BY, UK  
 Tel: +44 (0) 1494 887500 Fax: +44 (0) 1494 887505  
 Website: [www.elgalabwater.com](http://www.elgalabwater.com)

ELGA® is the global laboratory water brand name of Veolia Water.  
 VWS (UK) Ltd. Registered in England & Wales No. 327847  
 ©Copyright 2007 ELGA LabWater / VWS (UK) Ltd. All rights reserved.