

# Lifegard™ Cartridge Filter

1.0 µm Nominal Rated  
Catalogue Number: CP1553S03  
Lot Number: xxxxxxxxxx

## Good Manufacturing Practices

This product was manufactured in a Millipore facility which meets or exceeds FDA Device Good Manufacturing Practice standards.

## ISO 9000 Quality Standard

This product was manufactured in a Millipore facility whose Quality Management System is approved by an accredited registering body to the appropriate ISO 9000 Quality Systems Standard.

## Component Materials Toxicity

Component materials were tested and meet the criteria for the USP Class VI Biological Test for Plastics.

## Quality Assurance Lot Release Criteria

This manufacturing lot was sampled, tested and released by Quality Assurance to the following specifications:

### USP Bacterial Endotoxins

A cartridge aqueous extraction contains less than 1.0 EU/ml as determined using the stimulus Amebocyte lysate (AL) test.

### Structural Integrity

Samples were found to be integral as measured by an aerosol challenge test.

### Flow Rate and Pressure Drop

Samples met a maximum pressure drop of 3.3 psid (228 mbar) at 30 gpm (114 L/min) per 30-inch cartridge with clean water at 23 °C.

### USP Oxidizable Substances

Effluent was negative after a water flush of 15 L per autoclaved 30-inch cartridge.

## Quality Assurance Audit Criteria

This product was designed and manufactured to meet the following specifications. Performance is confirmed by testing on an audit basis.

### Toxicity

This product is non-toxic per the current USP General (Mouse) Safety Test.

### Gravimetric Extractables

The extractables level was equal to or less than 250 mg per 10-inch cartridge after 24 hours in ASTM Type 1 reagent-grade water at controlled room temperature.

### Multiple Sterilization Cycles

Integrity was maintained after 10 steam-in-place cycles of 30 minutes at 121 °C.



Peter Eicherl  
BioPharmaceutical Quality Manager