



## Certificate of Quality

### Q-Gard® 1 Purification Cartridge

We certify that the product described within meets the following criteria.

**Catalogue Number : QGARD00R1**  
**Lot Number : F8SA46448**  
**Manufacturing date : 05-DEC-2018**

#### ISO 9001 Quality standard

This product was engineered and validated in a Millipore SAS facility which Quality Management System is approved by an accredited registered body to ISO 9001 Quality Systems Standard.

#### Materials

Q-Gard 1 purification cartridges contain a combination of purification media (including electronics grade ion exchange resins, activated carbon and the Organex Q™ scavenger mixture) carefully selected to remove contaminants from various feed water types. These purification cartridges are constructed from polypropylene which are low in extractables.

#### Product Integrity

This lot of product was statistically tested during manufacturing and met requirements for the seal integrity test.

#### Capacity

The exclusive Jetpore®, ultrapure grade mixed-bed ion-exchange resin used in this Q-Gard insures a minimum total capacity of 77g NaCl. Dynamic capacity of this product is greater than 50g NaCl (tested according to Millipore S.A.S. specifications).

#### Quality Assurance Lot Release Criteria

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

- Burst strength: Samples met the Millipore SAS requirements for destructive burst test.
- Resistivity: Samples met the requirements for ASTM Type 1 Water, achieving resistivity above 18.0 MΩ.cm at 25°C.
- TOC: Samples achieved TOC levels below the specifications given in table after flushing with Elix® water as indicated in the following table.

Burst test	TOC
> 20 bar > 290 psi	< 10 ppb

Laetitia Breitwiller  
Quality Assurance Manager – Lab Water