

### CERTIFICATIONS

**5 YEARS WARRANTY**

**WaterMark AS/NZS 23448**

### BENEFITS

- ✓ Water feels softer.
- ✓ Softer skin and hair.
- ✓ Better tasting tea and coffee.
- ✓ Clean and clear shower glass.
- ✓ Less scrubbing.
- ✓ Reduce scale build up.
- ✓ Cleaner and softer laundry.
- ✓ Longer-lasting appliances.
- ✓ Better lather and soap action.

### 2-Stage Whole House Water Filtration System with Stainless Steel Cover



Including Installation<sup>1,2</sup>

**CLASSIC**

**\$1895**



Including Installation<sup>1,2</sup>

**PREMIUM**

**\$2095**

### Reduction Claim

Sediments	✓	✓
Chlorine	✓	✓
Pesticides & Herbicides	✓	✓
Volatile Organic Compounds	✓	✓
Taste, Odours & Colour	✓	✓
Heavy Metals (Copper, Arsenic, Mercury, Lead...)	✗	✓
Parasites	✓	✓
Bacteria & Viruses	✗	✓
Chloramines	✗	✓
Scale Build Up	✗	✓

Dimensions System: 600 W x 740 H x 220 D mm

Replacement Filters Bundle

**\$165**

**\$299**

### Notes

<sup>1</sup> Installation is only available for Perth, Sydney, Brisbane and Gold Coast Regions.

<sup>2</sup> Terms and conditions apply for installation included in price (Special location requests can incur extra charges).



The whole house filtration system is a "point of entry" system that purifies all water (Town, Bore, Dam, and Rain) before entering your home or business; the whole house system cleans your water from the source. This means you can enjoy filtered water from every tap in your home.



### SPECIFICATIONS

Flow Rate: 50-60 LPM  
 Connection Type: 1" or 3/4" Ports  
 Operating Pressure: 90 psi (620 kPa)  
 Operating Temperature: 2°C - 52°C (protect from freezing)  
 Filter Life: Up to 300,000 litres in city/town water

### MAINTENANCE WH

Every 18 months all filter cartridges should be replaced. However, replacement frequency depends on water quality and usage.



For customers looking for a 99.99% fluoride and hardness removal as well as sweet tasting water (Bottled-like Water). Since the whole house system will work as the pre-filtration stages that a regular reverse osmosis needs, the purchase, installation and maintenance of the system will be a fraction of the original price.



- ✓ Fluoride
- ✓ PFAS
- ✓ Antibiotics
- ✓ Hardness
- ✓ BPA
- ✓ Nitrates & Nitrites

### SPECIFICATIONS

Dimensions:  
 200 H x 300 W x 100 D mm  
 Connects To: Cold Water Line  
 Membrane Flow Rate: 16L/h  
 System Outflow Rate: 3 L/min  
 Final pH Level: >9 (Alkaline Water)

### MAINTENANCE RO

1st Stage: Carbon Filter (Every year)  
 2nd Stage: Membrane (Every 3 years)  
 3rd Stage: Alkalising Filter (Every 2 years)

## 1st Stage



ALGAE



DIRT & SAND



RUST, SILT, MUD & CLAY



**Sediment Filter**

100% Polypropylene Triple Gradient Sediment Filter for the most efficient reduction of dust, dirt, rust, algae and sand.

- Removes particles down to 1 micron.
- Made with materials complying with NSF/ANSI Standard 42.

## 200% CAPACITY FILTERS

20"



10"



20" x 4.5" filters offer 200% capacity when compared to 10" x 4.5" filters

**Silver Carbon**

Please note our new whole house systems are giving you as twice as much contact time, flow rates, longevity and chemical removal rates, compared to old technologies and components used in older 10" systems.

New systems also come with a durable Stainless Steel Enclosure (not plastic), that will not bend over time, to protect housings from extreme conditions and UV rays. They also come with Stainless Steel Components rather than plastic for maximum durability.

## 2nd Stage: Classic



VOCs



CHLORINE, TASTE & ODOURS



HERBICIDES & PESTICIDES



**Carbon Block**

Carbon Filters for the most effective reduction of chlorine, volatile organic compounds, pesticides, herbicides, taste, colour and odour from water. Made with compliant raw materials using cutting-edge methods resulting in premium performance, reliability, adsorption and flow rates.

- Made with materials complying with NSF/ANSI Standard 42.

## 2nd Stage: Standard



VOCs



CHLORINE, TASTE & ODOURS



HERBICIDES & PESTICIDES



**Silver Carbon**

Silver Impregnated Carbon Filter for the most effective reduction of chlorine, taste, odour, volatile organic compounds, herbicides and pesticides.

- This filter is bacteriostatic. This means that it will prevent the reproduction and growth of bacteria within the filter.
- Made with materials complying with NSF/ANSI Standard 42.

Big Carbon filters employ a high-grade carbon with industry-leading surface area, allowing for the most exceptional efficiency of the carbon adsorption. This extends the life of the filter cartridge, maximizing the time between cartridge changes.

Carbon Filters are Tested and Certified by NSF International under NSF/ANSI Standard 42 for material requirements only.

## 2nd Stage: Premium



CHLORAMINES



CHEMICALS



BACTERIA & VIRUSES



PARASITES



HEAVY METALS

Aragon features the latest technology in water filtration. The media combines mechanical, ion exchange, adsorption, and electric adsorption filtration methods. Each filtration method removes different contaminants to deliver high quality drinking water.

- Particles >2 microns.....99.999%
- Lead, Arsenic.....99.95%
- Copper, Selenium.....97.6%
- Barium.....99.99%
- Beryllium.....95%
- Chromium, Mercury.....99%
- Thallium.....98%
- Zinc.....100%
- Cesium.....98%
- Chlorine.....100%
- Chloramines.....>90% +
- Pesticides.....97%
- Iron.....90%
- Antimony.....90%
- Aluminium.....97%
- Turbidity.....99%
- Oil Products.....90%
- Legionella.....99.99987%
- Salmonella Typhimurium.....99.998%
- Poliovirus.....99.84%
- Rotavirus.....99.99%
- Hepatitis A virus.....96%
- Bacteria E.coli.....100%
- Pseudomonas aeruginosa.....100%
- Colifag f-2.....100%
- Eterobacter cloaceae.....100%



**Aragon Guard**



## High Capacity • High Porosity • High Performance

### CERTIFICATIONS

- Certified by Institut Pasteur de Lille (France)
- Certified by S.M Kirov Military Medical Academy (Russia)
- Certified by The Research Institute of Influenza (Russia)
- Certified by V.G Khlopin Radium Institute (Russia)
- Certified by The Research Institute of Epidemiology and Microbiology (Russia)
- Certified by IFTS (France)
- Certified by IAPMO (United States)
- Certified by University of Ferrara (Italy)
- Tested in Vienna University (Austria)
- Tested in National Institute of Mineral Raw Materials of Russian Academy of Sciences (Russia)



Made in Europe



# Polypropylene Sediment Cartridges

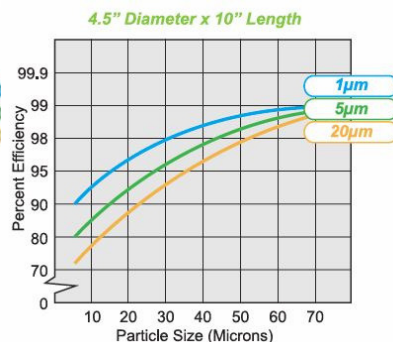
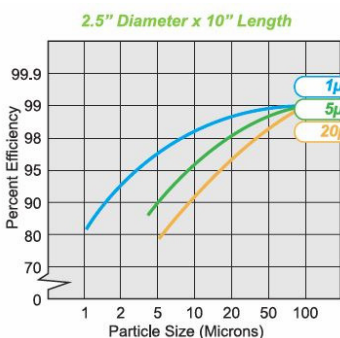
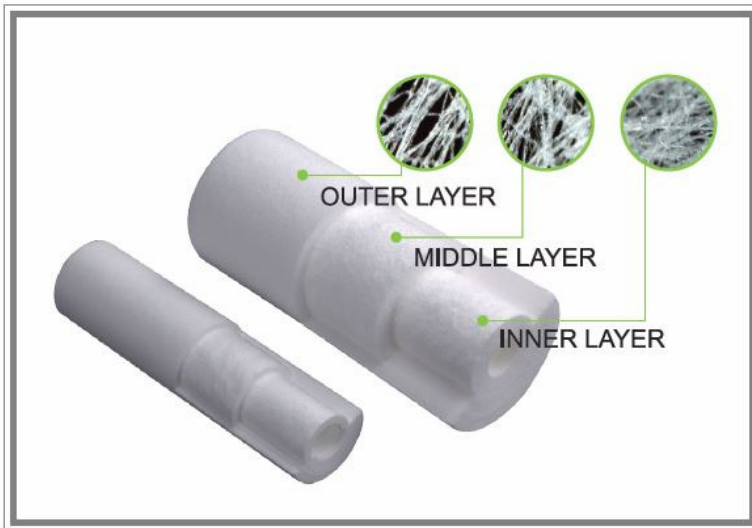
Sediment filters are used as a primary filter to help to remove dirt, rust and sediment deposits, from water to help prevent or slow down the blockage of the secondary carbon filter.

Sediment filters range from less than 1 micron to about 70 microns but the most typically used are 5, 10, 20, 25, 30, 50. They would typically be used in a sequence with the biggest "pore" size or micron size being the first one the water goes through and the smallest the last.

AWC recommends sediment filter made from Polypropylene which is resistant to the growth of bacteria. They typically come in four sizes which are 9", 10" and 20" tall and 2.5" and 4.5" radius. They are typically referred to as either Slim Line or Big Blue.

## Features & Benefits

- Three-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100%PP for compatibility with a wide range of process fluids.
- Micro-Denier melt-blown fiber, high removal ratings.
- Formed by thermal bond without use of any binders and adhesives
- Certificated by NSF42 and FDA CFR Title 21.



Model No.	FPP-LL-WX-ZZZ
Micron Rating	1,3,5,10,25,50,75,100 Micron
Material of Construction	100% melt-blown micron-denier PP fibre
Length	9", 10", 20", 30", 40" (251mm, 254mm, 508mm, 762mm, 1016mm)
Inner Diameter	28mm
Outer Diameter	2.5", 4.5" (63mm, 110mm)



# Aragon Filter Cartridge

Made in Europe

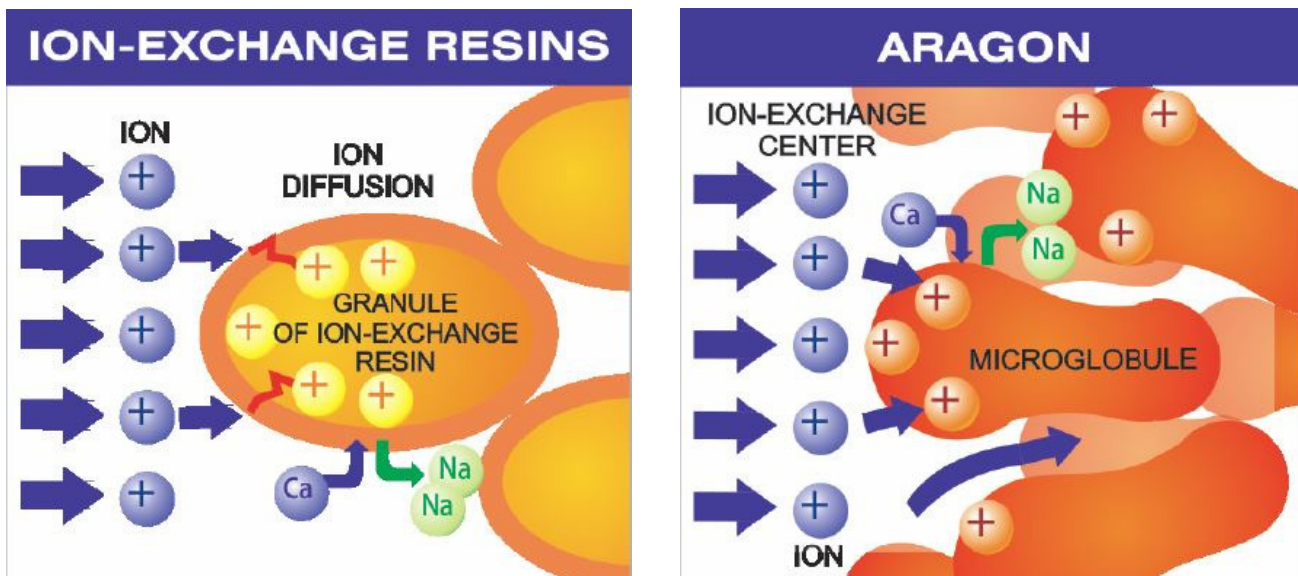
This world leading cartridge is based on the innovative, patented Aragon Media. It has been extensively tested by Certified Laboratories in Europe, to effectively remove chemicals, pesticides, bacteria and heavy metals as well as sediment down to >2 microns.

This high quality extruded carbon block cartridge is equally effective at purifying both **hot** and **cold** water.

## Manufacture

Developed in Eastern Europe, these new SGS-polymers (space globular structure) material for water purification combines 3 methods of filtration: mechanical, sorption and ion-exchange, making this filter the best to date at removing the widest range of chemicals & heavy metals

Long polymer chains are formed in the production process, providing a porous yet mechanically strong structure. These polymer chains are coated and enable a highly effective ion exchange process.



**This method of SGS-polymer filtration is up to 20 times more effective than common methods of ion-exchange.**

The Aragon filter is especially effective when using tank or bore water to protect the user from organisms such as Protozoa, Giardia & Chryptosporidium. Like wise, the Aragon compound filters water high in heavy metals often found in bore water and some tank water.

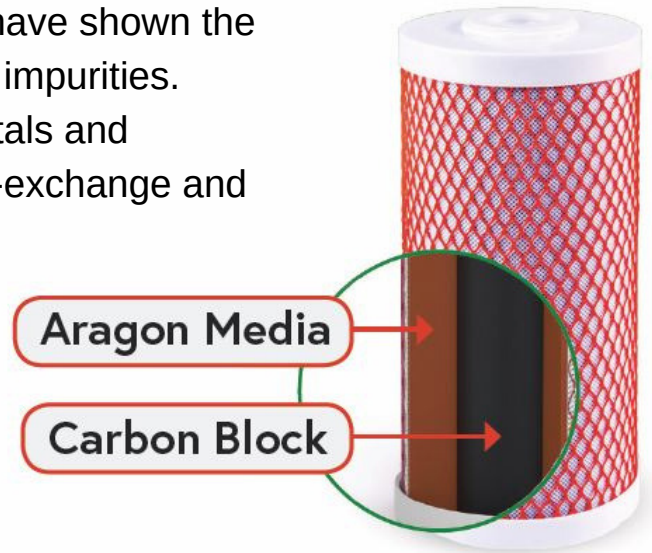
# Filtration Process

Mechanical impurities are filtered out through the surface layers with extremely high accuracy. SGS-polymers have shown the best results in the complex removal of harmful impurities.

Elements and compounds including heavy metals and radioactive materials are removed through ion-exchange and sorption mechanisms.

The Aragon solid block material is a bacteriostatic polymer made from additives of silver and granules of ion-exchange resins.

**Hardness salts**, dissolved and colloidal iron, heavy metals and their compounds are removed through the resin and polymer ion-exchange properties. The Aragon filters capacity also provides removal of active chlorine, chlorine containing compounds and organic compounds.



## Specifications

### Max Flow Rate:

10" Big Blue..... 25 litres p/m

20" Big Blue..... 50 litres p/m

**Water Temperature**..... +4°C to +75°C

### Filter Life:

10" Big Blue..... 30,000 litres

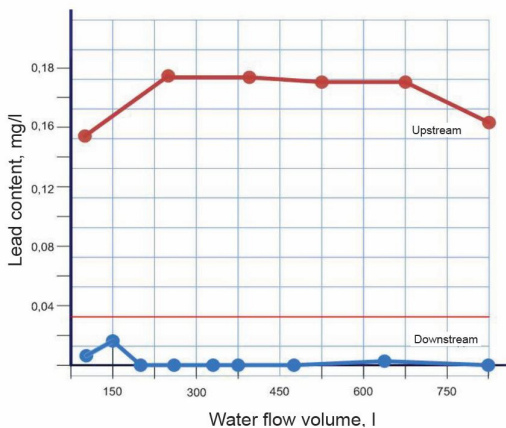
20" Big Blue..... 60,000 litres

## Filtration Efficiency

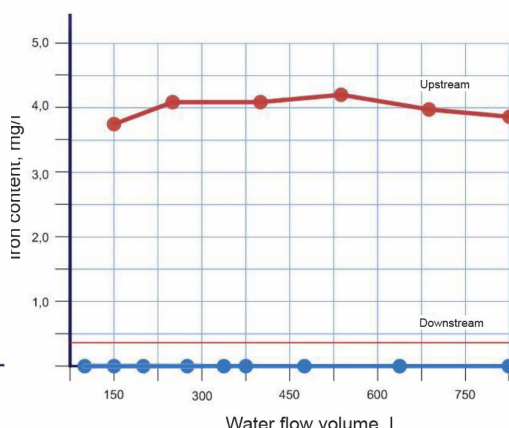
Particles >2 microns.....	100%
Lead, zinc, cadmium, cesium.....	95%
Chlorine.....	100%
Chloramines.....	>90% +
Pesticides.....	92%
Iron.....	90%
Aluminium.....	97%
Turbidity.....	99%
Oil Products.....	90%

## Heavy Metal Removal

Example: Lead Removal Efficiency

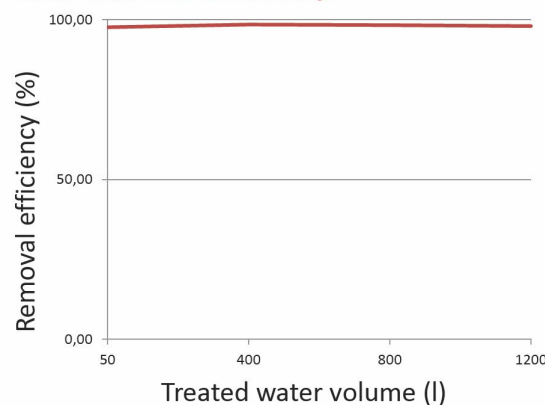


Example: Iron Removal Efficiency



## Pesticides Removal

Simazin Removal Efficiency



# ARAGON GUARD

Aragon features the latest technology in water filtration. The media combines mechanical, ion exchange, adsorption, and electric adsorption filtration methods. Each filtration method removes different contaminants to deliver high quality drinking water.

- Particles >2 micron.....99.999%
- Lead.....99.95%
- Zinc, Cadmium.....100%
- Cesium.....98%
- Chlorine.....100%
- Chloramines.....>90% +
- Pesticides.....97%
- Iron.....90%
- Aluminium.....97%
- Turbidity.....99%
- Oil Products.....90%
- Legionella.....99.99987%
- Salmonella Typhimurium.....99.998%
- Poliovirus.....99.84%
- Rotavirus.....99.99%
- Hepatitis A virus.....96%
- Bacteria E.coli.....100%
- Pseudomonas aeruginosa...100%
- Colifag f-2.....100%
- Eterobacter cloaceae.....100%



Università  
degli Studi  
di Ferrara



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Certified by The Research Institute of Influenza (Russia)  
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Certified by The Research Institute of Epidemiology and  
Microbiology (Russia)

Certified by IFTS (France)  
Certified by IAPMO (United States)  
Certified by University of Ferrara (Italy)  
Tested in Vienna University (Austria)



Made in Europe



# Institut Pasteur de Lille

France

The institute took its name from the famous French microbiologist Louis Pasteur, the founder and the first director. Louis Pasteur was buried in Notre-Dame de Paris cathedral for his prominent services to France, but later reburied in the territory of the Institute (Lille).

Important discoveries have been made In Pasteur Institute. That contributed to successful control of such virulent diseases as diphtheria, tetanus, tuberculosis, poliomyelitis, influenza, yellow fever and plague. In 1983 the human immunodeficiency virus was discovered in the institute. Since 1908 ten scientists of the institute have received Noble Prizes for Medical Science and Physiology.



## How the Tests Were Conducted?



*Photo: the modules and the housing presented to the Institut Pasteur de Lille*

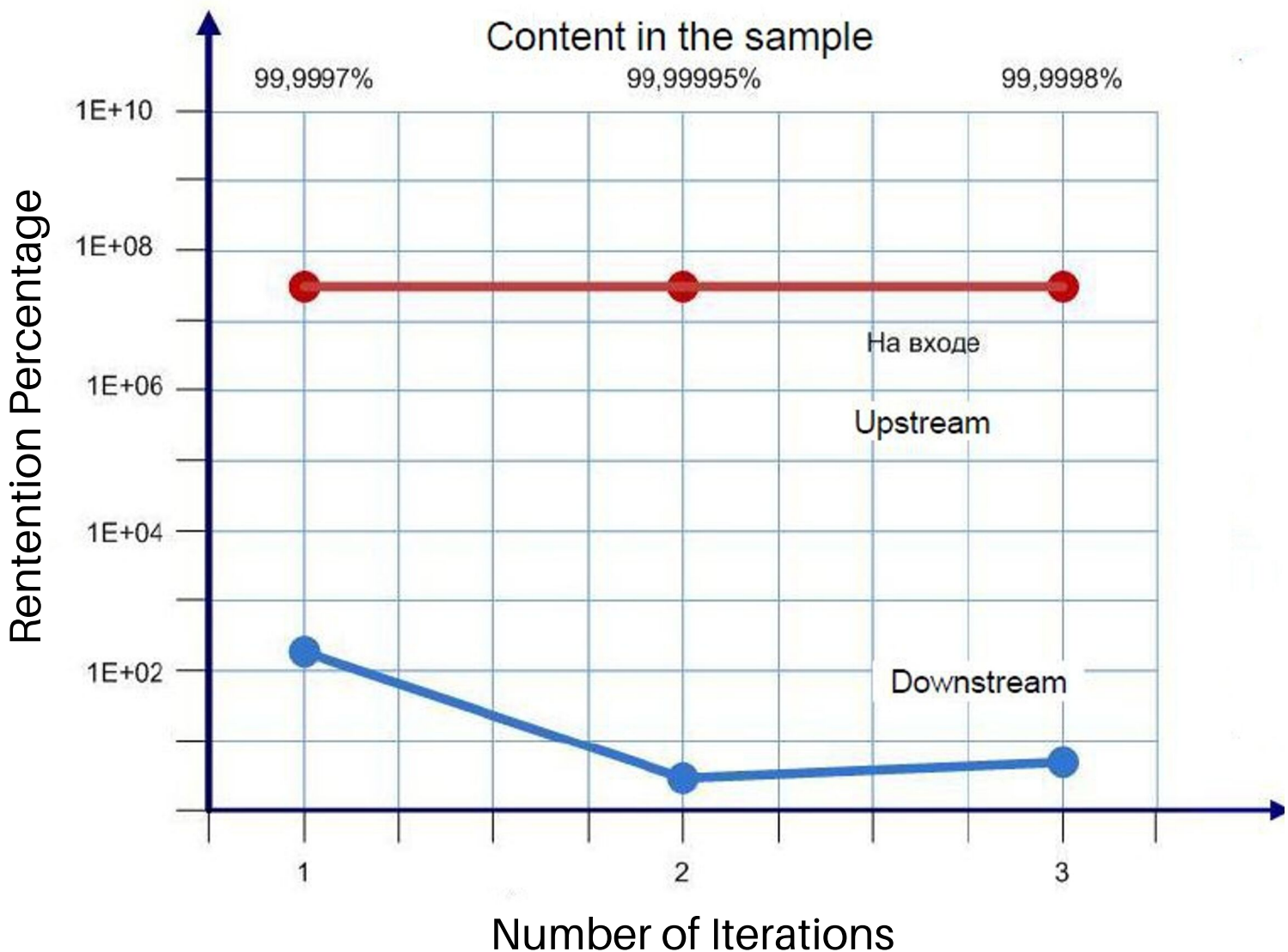
The filtering modules made of ARAGON were taken randomly from the batch. They were placed into a standard series-produced plastic housing. A peristaltic pump was used to circulate water through the modules. Each module was tested once. The tests were conducted with the use of artificially contaminated ultrapure water. Pollution-free water passed through the module prior to the experiment then contaminants were added and the treated water was collected after being filtered.



# Removal of Salmonella

Salmonella is a mouse typhus agent. Nonspore-forming rod-shaped bacteria.

Length: 1-7  $\mu\text{m}$ ; width: around 0.3-0.7  $\mu\text{m}$ . The salmonellas are gram-negative mobile facultative-anaerobic bacilli.

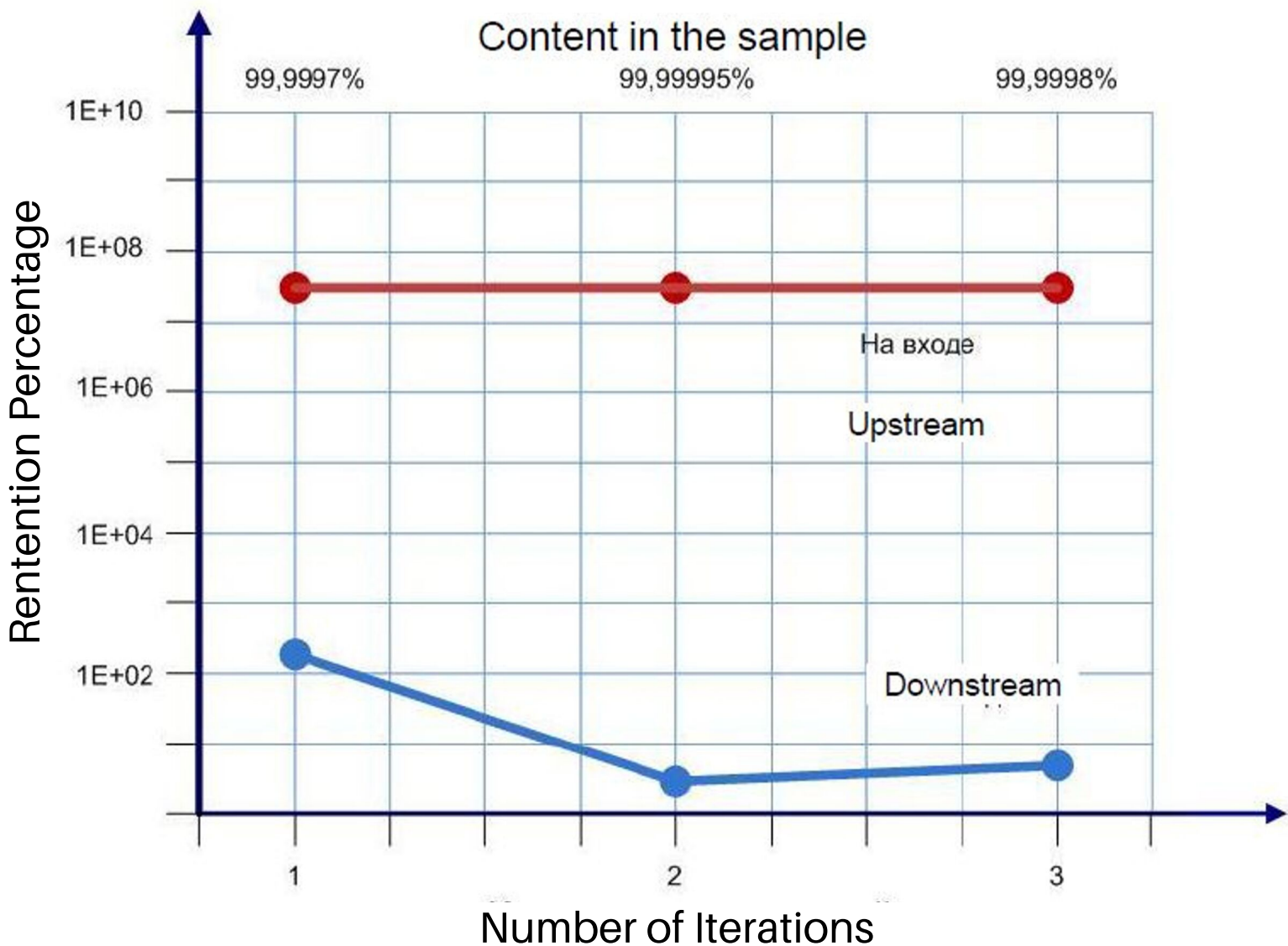




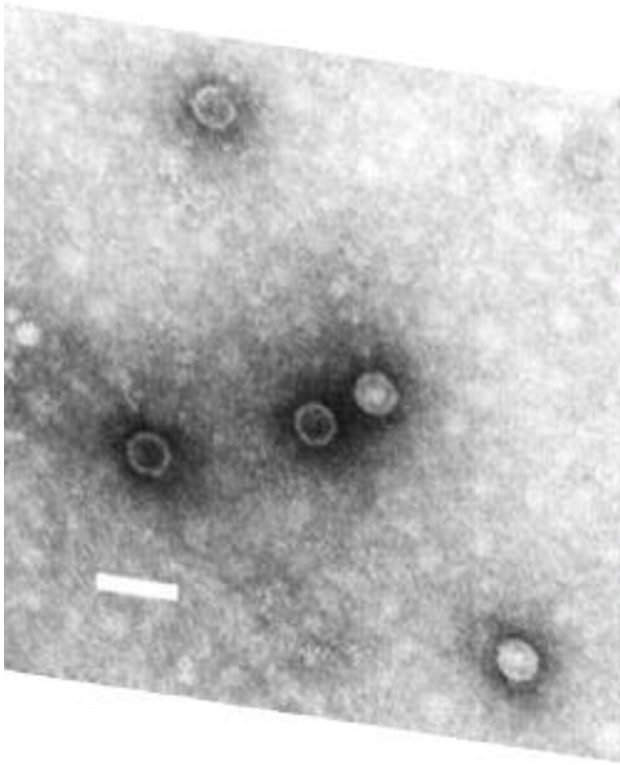
# Removal of Legionella



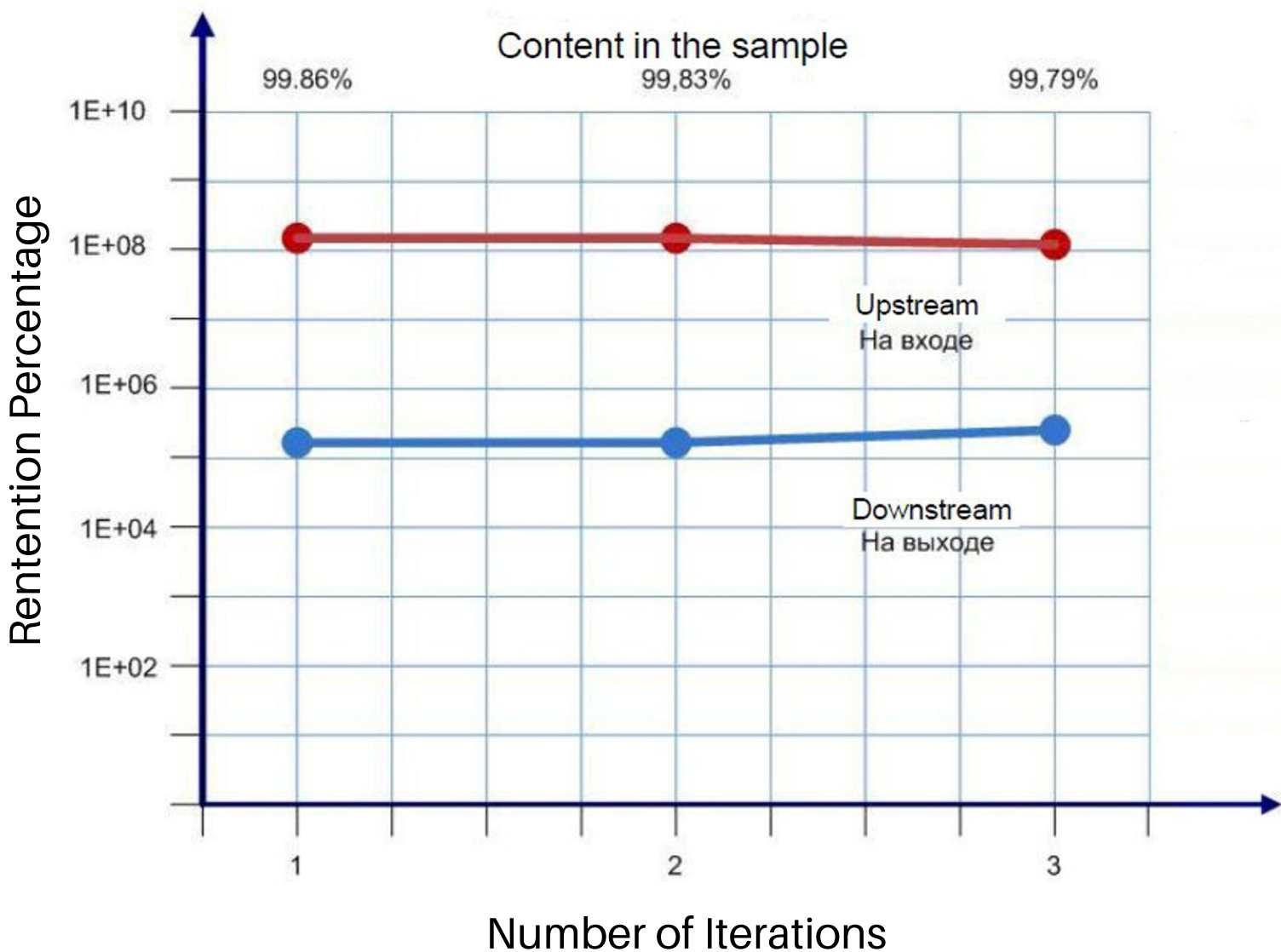
Legionella pneumophila are pathogenic gram-negative bacteria. Diameter: 0.2 to 0.7  $\mu\text{m}$ , length: 2 to 20  $\mu\text{m}$ . The inhabitation places of legionella are fresh water bodies and soil and also water supply and air conditioning systems in buildings, heating water converter plants and shower facilities, fountains, etc.



# Removal of Poliovirus



Poliovirus (Poliovirus Strain Sabin type I) belongs to the family Picornaviridae, enterovirus (enteric virus) group. Virus size: 27-30  $\mu\text{m}$ . Production and titration were on the BGMK cells (African green monkey's kidney).

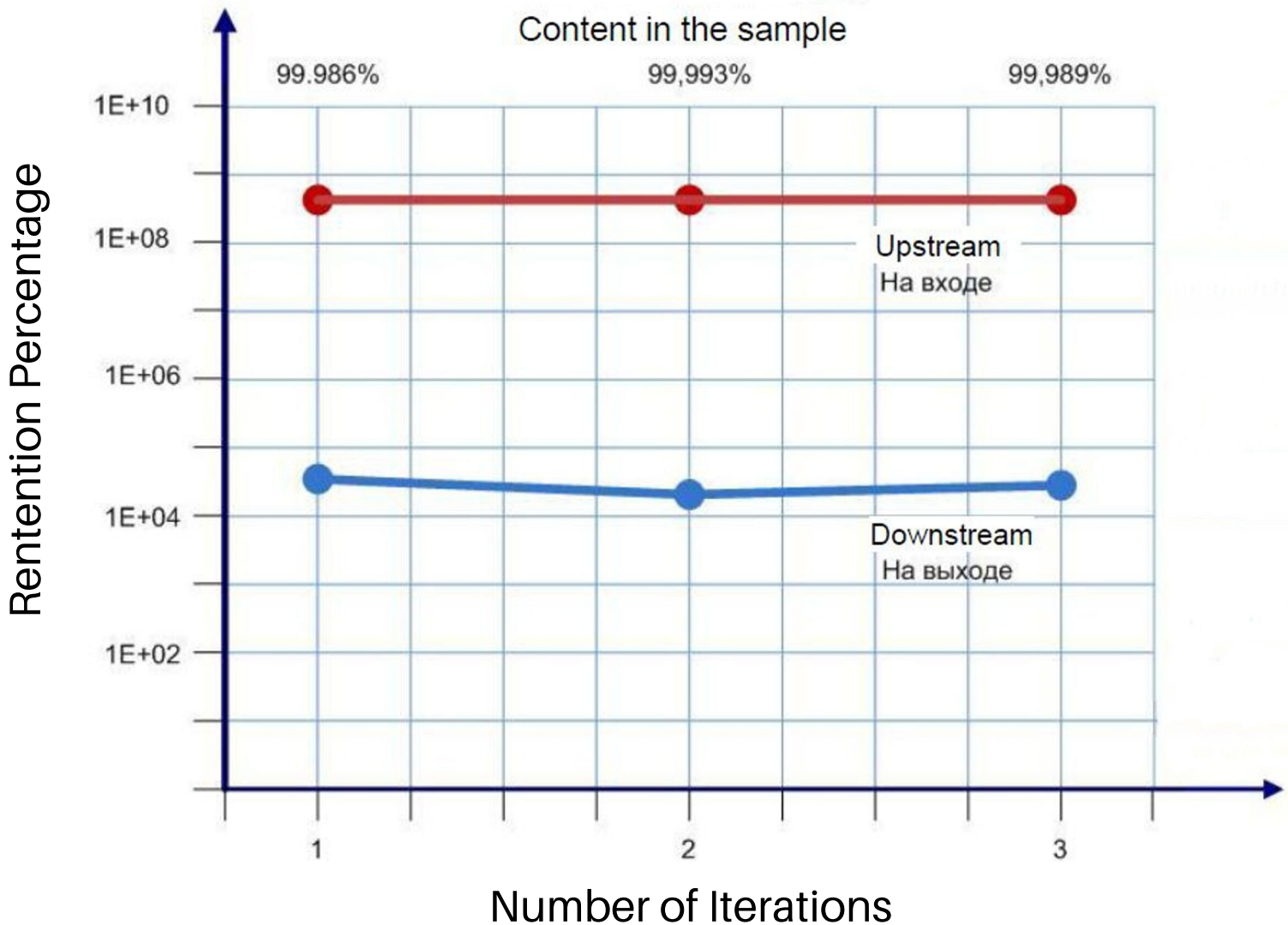


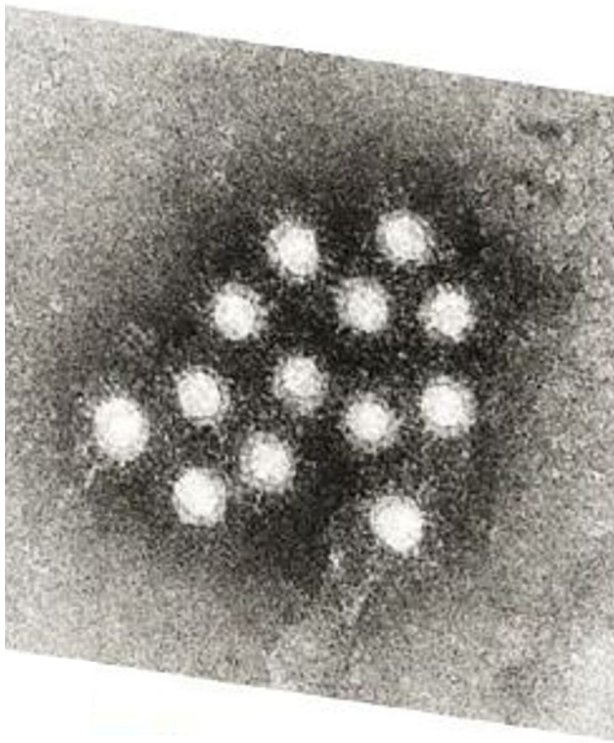
# Removal of Rotavirus



Rotavirus is an enveloped virus with two-strand fragmented RNA belonging to the family Reoviridae, rotavirus infection agent.

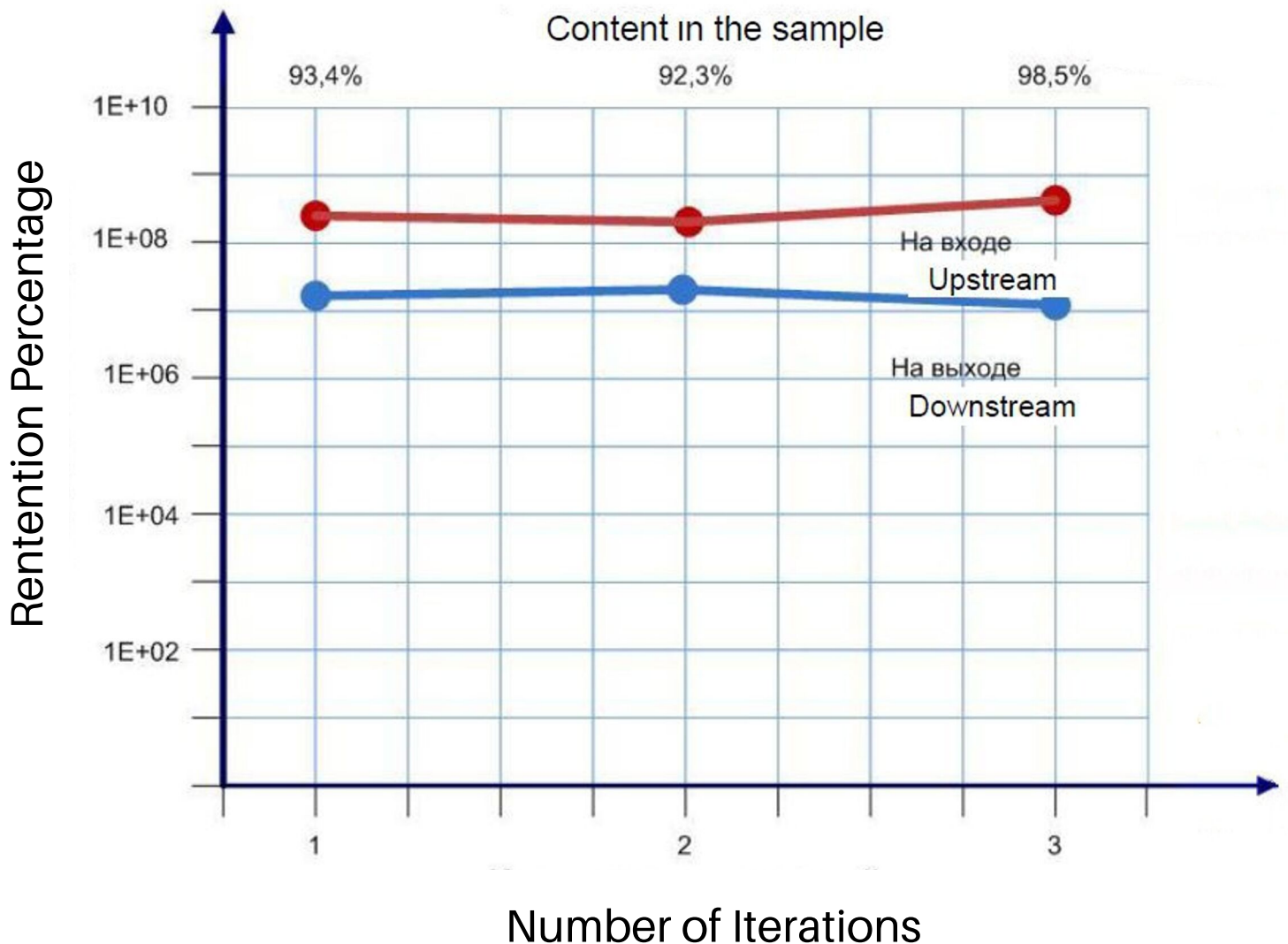
Virus size: 76.5  $\mu\text{m}$  in diameter. Production and titration were on the primates MA104 cells.



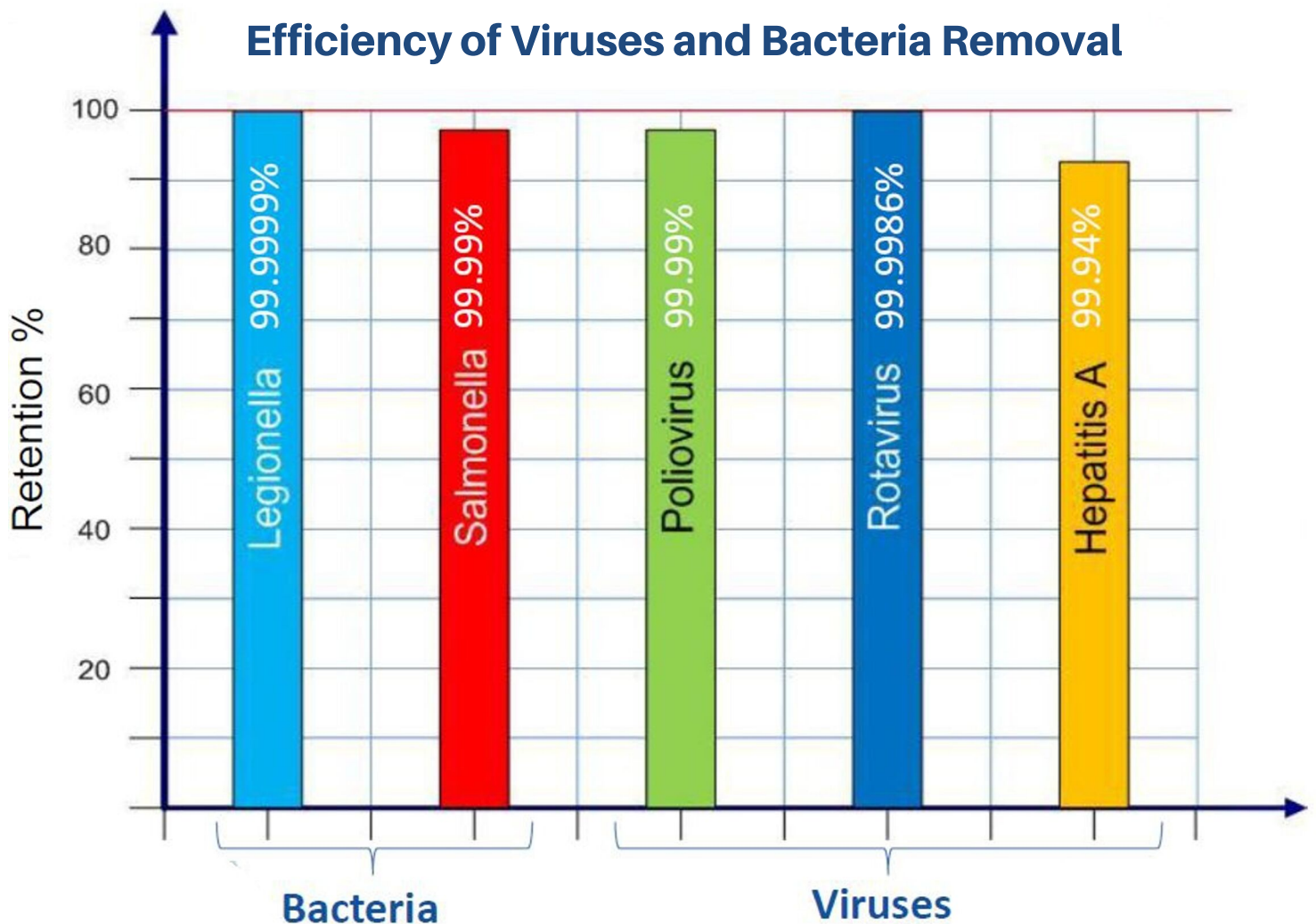


## Removal of Hepatitis A

Hepatitis A (formerly known as infectious hepatitis) belongs to Picornaviridae family of viruses. It has no envelope and contains (+) singlestranded RNA packaged into protein capsid. Size: 27  $\mu\text{m}$  in diameter.



## Efficiency of Viruses and Bacteria Removal



## Conclusion

**Aragon BIO** represents the most up-to-date technology for water treatment and viruses, bacteria and cists removal. That makes it possible to get completely safe and health-promoting water without boiling.

**Aragon BIO** can be used as well as the main element in water treatment and decontamination systems and as one of the pre-treatment stages, e.g. as a part of the membranes protection against bio contamination.

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**Aragon BIO** is comparable to polymeric UF/MF membranes (that are for domestic use) in efficiency. But it has greater productivity and significantly lower pressure drop.

**Aragon BIO** provides higher efficiency of filtration and kinetic absorption as compared to standard nonwoven fabrics including granular activated carbon.

**Aragon BIO** is absolutely environmentally-friendly. It can be used for potable water treatment and decontamination according to GOST R 51871-02, 51232-98.

### Domestic Use

- Potable water filtration both at home and outdoors
- Water supply of house
- Water purification in emergency zones, (radioactive pollution conditions)
- Water treatment in mainlines

### Commercial Use

- Treatment and purification systems for discharges
- Hot water supply (boilers)
- Pre-filtration in the membrane filtering systems
- Pre-filters for mainlines