

Aragon Filter Cartridge

Made in Europe

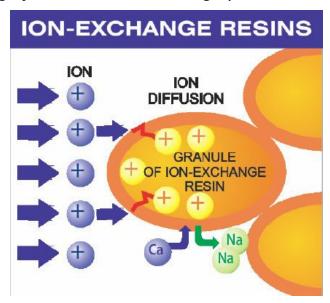
This world leading cartridge is based on the innovative, patented Aragon Media. It has been extensively tested by Certified Laboratories in Europe, to effectively remove chemicals, pesticides, bacteria and heavy metals as well as sediment down to >2 microns.

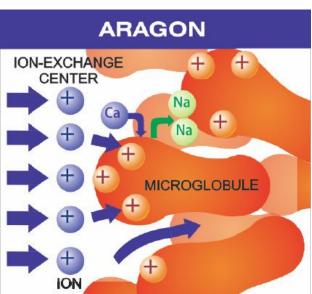
This high quality extruded carbon block cartridge is equally effective at purifying both hot and cold water.

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.





Office: 07 3206 7827

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 there 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.

-exchange and	
Aragon Media	
Carbon Block	

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

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20"	Big	Blue	60,000	litres

Filtration Efficiency

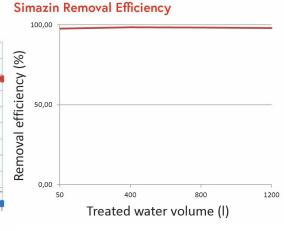
Particles >2 microns	100%
Lead, zinc, cadmium, cesium	.95%
Chlorine	100%
Chloramines	>90% +
Pesticides	92%
Iron	90%
Aluminium	97%
Turbidity	99%
Oil Products	90%

Heavy Metal Removal

Example: Lead Removal Efficiency Example: Iron Removal Efficiency

0,180,160,00-

Pesticides Removal





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?

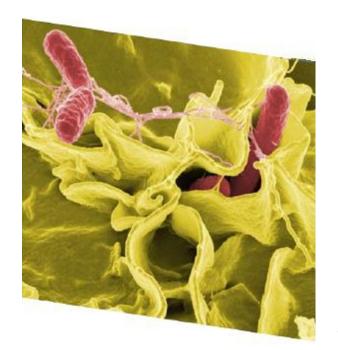






Photo: the modules and the housing presented to the Institut Pasteur de Lille

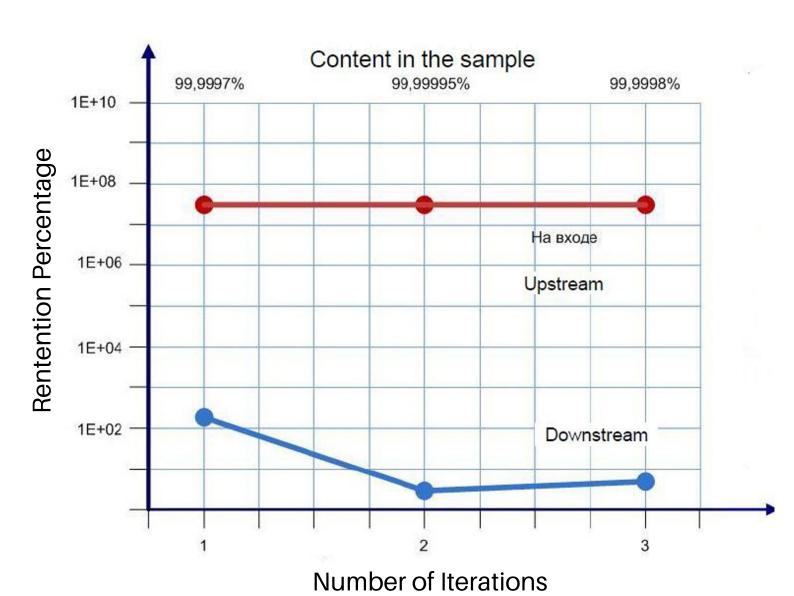
The filtering modules made of ARAGON were taken randomly from the batch. They were placed into a standard series-produced plastic housing. A peristaltic pump was used to circulate water through the modules. Each module was tested once. The tests were conducted with the use of artificially contaminated 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.

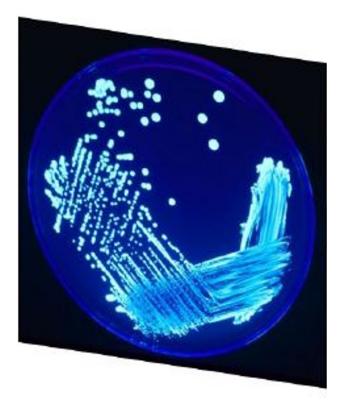


Removal of Salmonella

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

Length: 1-7 µm; width: around 0.3-0.7 µm. The salmonellas are gram-negative mobile facultative-anaerobic bacilli.



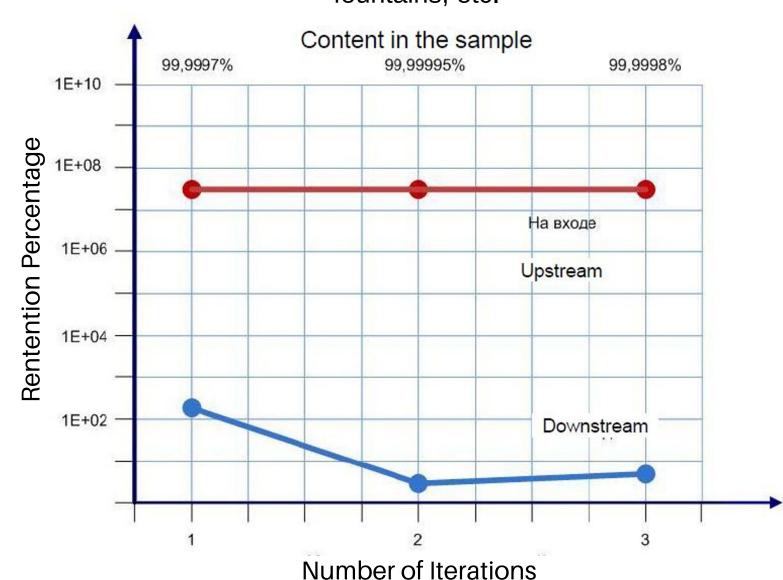


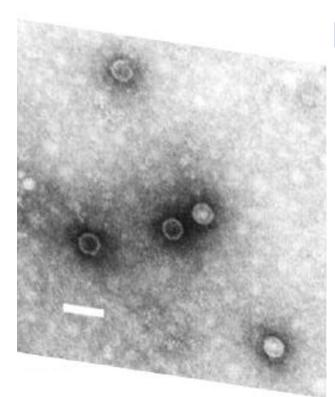
Removal of Legionella

Legionella pneumophila are pathogenic gram-negative bacteria.

Diameter: 0.2 to 0.7 µm,

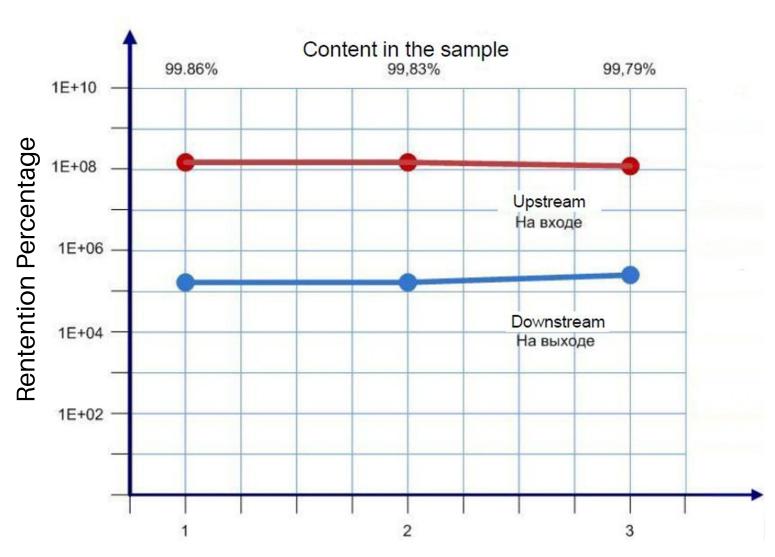
length: 2 to 20 µm. The inhabitation places of legionella are fresh water bodies and soil and also water supply and air conditioning systems in buildings, heating water converter plants and shower facilities, fountains, etc.

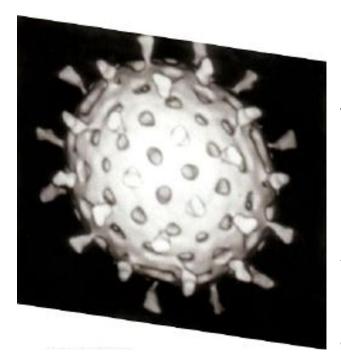




Removal of Poliovirus

Poliovirus (Poliovirus Strain Sabin type I)
belongs to the family
Picornaviridae, enterovirus
(enteric virus) group.
Virus size: 27-30 µm.
Production and titration were on the BGMK cells
(African green monkev's kidney).

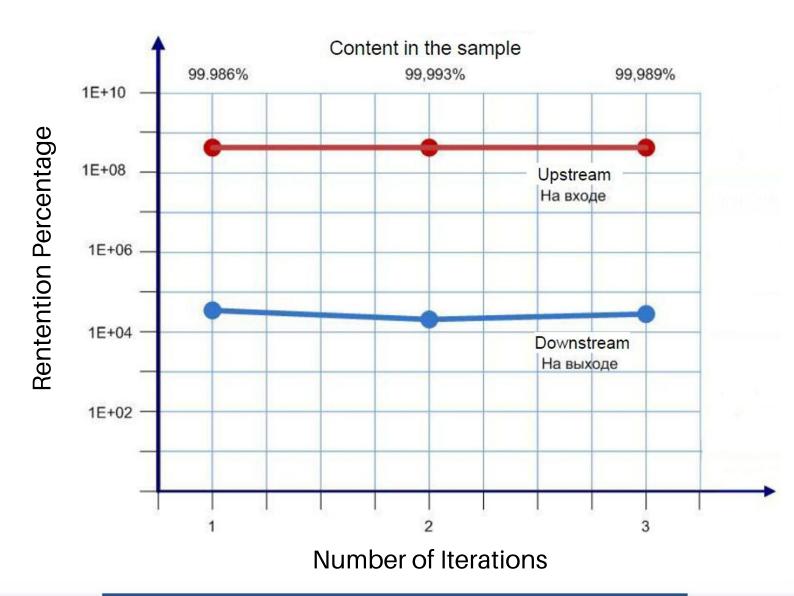


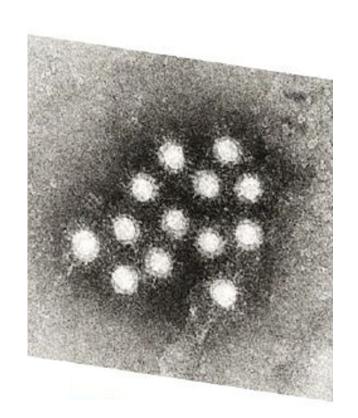


Removal of Rotavirus

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

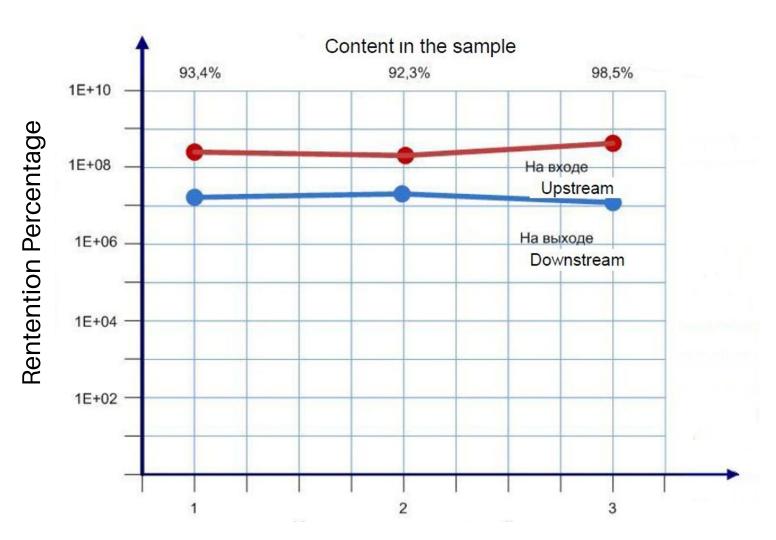
Virus size: 76.5 µm in diameter. Production and titration were on the primates MA104 cells.

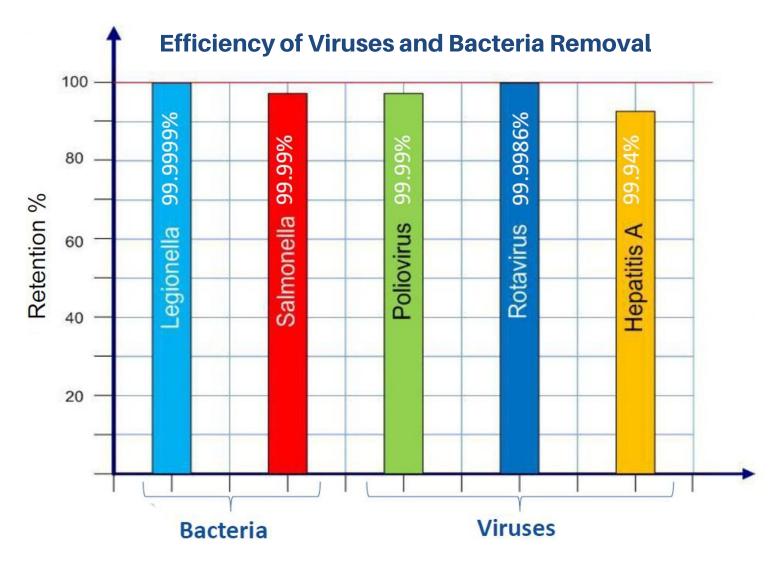




Removal of Hepatitis A

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 µm in diameter.





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-filteration in the membrane filtering systems Pre-filters for mainlines

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%	
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- 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%
- Hepatitus A virus......96%
- Bacteria E.coli......100%
- Pseudomonas aeruginosa...100%
- Colifag f-2.....100%
- Eterobacter cloaceae.....100%











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)
Certifued by IFTS (France)

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



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