



## NanoKleen tm Test Report Data

### Sub-micron Particle capture by **NanoKleen®** Water Purifier

Sub-micron particles in water cause reduced clarity of the water and often carry bio-hazards such as bacteria and viruses

Port	Particle size range <sup>d</sup> , microns					
	0.1-0.25	0.25-0.5	0.5-0.6	0.6-0.8	0.8-1.0	
Upstream particle count	283849	168736	46095	19008	8710	Number of particles in rain water
Downstream particle count	67	21	15	<1	<1	Number of particles in <b>NanoKleen®</b> purified water
<b>Net Efficiency, %</b>	<b>99.98</b>	<b>99.99</b>	<b>99.97</b>	<b>&gt;99.995</b>	<b>&gt;99.99</b>	

1 micron = 1% of human hair thickness

0.1 micron = size of tobacco smoke particles

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### Bacteria reduction by **NanoKleen®** Water Purifier

**Test number 2:** This table confirms the effective disinfection by the **NanoKleen®** Water Purifier on bacteria in water

	PARAMETER	INPUT WATER CONCENTRATION	OUTPUT WATER
E-Coli — — →	→ <i>Escherichia coli</i> MTCC 10536	4.5 x 10 <sup>5</sup> cfu/ml	Absent /100ml
	<i>Salmonella typhi</i> NCTC 786	3.5 x 10 <sup>5</sup> cfu/ml	Absent/100 ml
	<i>Pseudomonas.aeruginosa</i> ATCC 15442	2.5 x 10 <sup>5</sup> cfu/ml	Absent/100 ml
Cholera — — →	→ <i>Vibrio cholerae</i> MTCC 3906	1.6 x 10 <sup>5</sup> cfu/ml	Absent/100 ml

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**Reference:** SA-24-09-20-Siyakhana Garden  
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## PCB Compounds reduction by **NanoKleen<sup>®</sup>** Water Purifier

PCB Compounds	ng/L	ng/L
	influent	effluent
• Total monochloro biphenyls	158	2.36
• Total Dichloro Biphenyls	629	0.85
• Total Trichloro Biphenyls	1260	nd
• Total Tetrachloro Biphenyls	4490	nd
• Total Pentachloro Biphenyls	4870	nd
• Total Hezachloro Biphenyls	4460	nd
• Total Heptachloro Biphenyls	2460	nd
• Total Octachloro Biphenyls	1810	nd
• Total Nonachloro Biphenyls	473	nd
• Decachloro Biphenyls	187	nd

PCB means Poly-chlorinated-biphenyls

PCBs are cancer causing chemicals which have been banned for industrial use

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## Antibiotics reduction by **NanoKleen<sup>®</sup>** Water Purifier

**Penicillin G** was used as a representative Antibiotic to test the effectiveness of the **NanoKleen<sup>®</sup>** Water Purifier

Tests done at 2 mg/l showed complete removal of Penicillin G

At typical levels in drinking water the **NanoKleen<sup>®</sup>** Water Purifier will remove all the Penicillin G during the filter cartridge's normal service life.

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## Plastics chemicals reduction by **NanoKleen<sup>®</sup>** Water Purifier

Bisphenyl A (called BPA) was used as the test contaminant in the water. Bisphenol A is an endocrine disruptor, which can mimic the body's own hormones and can lead to many negative health effects, particularly in your girls.

Tests done at 10 mg/l showed complete removal of BPA

At typical levels in drinking water the **NanoKleen<sup>®</sup>** Water Purifier will remove all the BPA during the filter cartridge's normal service life.

**NOTE:**

**Bisphenol A** is a chemical used in the manufacture of polycarbonate and epoxy resins. It is known to be estrogenic and it is a concern in relationship to reproduction, heart disease, diabetes, and in other health areas.

For more information contact Crystal Clear on  
Tel: 011 640 6445 or Email [info@crystalclear.co.za](mailto:info@crystalclear.co.za)

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