

Summary of microbiological pathogen removal testing results for Pure Hydration MAD® filters, 2011/12



These test results were conducted by internationally respected independent laboratories in the United Kingdom and the USA.



LONDON SCHOOL of HYGIENE & TROPICAL MEDICINE



Water Contaminant Tested	Influent Water Concentration	Effluent Water Concentration	Reduction
Bacteria (E. coli)	1.67×10 ⁶ CFU/ml	No bacteria found	99.99997%
Virus (Poliovirus)	5.00×10 ⁷ PFU/ml	5.00×10 ² PFU/ml	99.999%
Parasitic protozoa (simulant beads)	1.40×10 ⁴ per 500/ml	No beads found	99.993%

These results demonstrate that Pure Hydration MAD® filters meet and exceed international standards for microbiological pathogen removal.

	Bacteria		Viruses		Protozoa	
US EPA	6 log ₁₀	99.9999%	4 log ₁₀	99.99%	3 log ₁₀	99.9%
WHO Tier 1	4 log ₁₀	99.99%	5 log ₁₀	99.999%	4 log ₁₀	99.99%
WHO Tier 2	2 log ₁₀	99.0%	3 log ₁₀	99.9%	2 log ₁₀	99.0%
WHO Tier 3*	2 log ₁₀	99.0%	3 log ₁₀	99.9%	2 log ₁₀	99.0%
PH MAD®**	≥6.52 log₁₀	≥99.99997 %	5 log₁₀	99.999%	≥4.15 log₁₀	≥99.993%

* 2 out of 3 Tier 2 results required.

** As tested by the London School of Hygiene and Tropical Medicine.

Pure Hydration MAD® purifiers protect against:

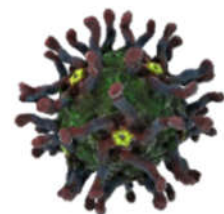
BACTERIA including

- *Campylobacter jejuni* - Campylobacteriosis
- *Vibrio cholera* - Cholera
- *Escherichia coli*
- *Helicobacter pylori*
- *Salmonella enterica* - Non-typhoidal salmonellosis
- *Salmonella enterica* serotype Typhi - Typhoid & Paratyphoid Fever
- *Shigella* - Shigellosis



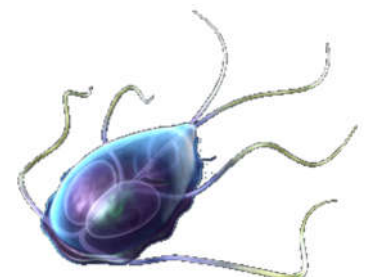
VIRUSES including

- *Hepatitis A*
- *Hepatitis E*
- *Norovirus*
- *Poliovirus* - Poliomyelitis



PARASITIC PROTOZOA including

- *Cryptosporidium parvum* - Cryptosporidiosis
- *Cyclospora cayetanensis* - Cyclosporiasis
- *Giardia lamblia* (*Giardia intestinalis*) - Giardiasis
- *Entamoeba histolytica* - Amebiasis
- *Toxoplasma gondii* - Toxoplasmosis



Copies of the original test reports are available on request.