

**Summary of microbiological pathogen reduction testing results for Pure Hydration M.A.D.® purifiers**



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

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

These results demonstrate that Pure Hydration M.A.D.® purifiers meet and exceed international standards for microbiological pathogen removal.

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

\* 2 out of 3 Tier 2 results required.

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

Pure Hydration M.A.D.® purifiers protect against:

**BACTERIA** including

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



**VIRUSES** including

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



**PARASITIC PROTOZOA** including

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

Copies of the original test reports are available on request.