

## I.W.M.S. 4000 Ceramic Water Candle Filter Data

- Doulton ceramic water filtration element exceeds US Public Health CDC/EPA guidance on drinking water for people with severely weakened immune systems. Far exceed EPA three log cysts removal standard.

N.J. Butler, M.Sc., F.I.Biol., A.I.F.ST. -- tested the Royal Doulton ceramic filtration element for bacteria removal efficiency, and stated: "*Providing the physical integrity of the filter elements is intact these can be used to produce sterilized water.*"

Absolute filtration efficiency rating 100%	0.9 µm absolute (0.5 µm ANSI standard)
Filtration efficiency >98%	0.2 µm
Filtration efficiency >90%	0.05 µm
E.coli bacteria. Tested with live <u>Escherichia coli</u> >	>99.99%
Salmonella typhi <u>test results</u> >	>99.999%
Vibrio cholerae	>99.99%
Klebsiella terrigena	>99.999%
Shigella disenteriae	>99.999%
Serratia marcescenes <u>test results</u> >	>99.99%
Cryptosporidium cysts <u>tested with live cyst</u> >	100%
Giardia cysts	100%

This data, from tests conducted by independent laboratories, demonstrates the removal capabilities of Doulton's ceramic purification element. This does not imply that these contaminants are present in individual water supplies.

It should be clearly understood that the concentration of bacteria fed to the filtration element is artificially high in order to simulate a challenging test for the ceramic element. The most aggressive "real life" condition would normally be at least 1000 times less severe.