



IBFE

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aquaBENOVA GmbH

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Report No.: 471012-b

Sample material:	aquaBENOVA-CLEAN – drinking water disinfection, in a plastic container	IBFE No: 471012
Project:	aquaBENOVA GmbH	
Testing number:	471012	
Customer:	aquaBENOVA GmbH	
	Yr. Order from:	02.10.2012
	Sample receipt:	08.10.2012
	Start of analysis:	10.10.2012
	End of analysis:	12.10.2012

Assay for a test with *Escherichia coli*:

2 x 1 litre of sterile tap water were contaminated with the coliform bacterium *Escherichia coli* to get a total cell concentration of 2.4 million *Escherichia coli* per litre water. One preparation was treated with 1.5 ml aquaBENOVA-CLEAN and mixed thoroughly. The other preparation was not treated and served as a control for the viability of the test organism during the trial period. At the times mentioned in the table below the germ content of both preparations was determined. The spatula method on TBX-agar was used for the untreated preparation and respectively 100 ml of the aquaBENOVA-CLEAN treated preparation were filtered according to DIN EN ISO 9308-1.

Incubation time	Germ content of <i>Escherichia coli</i> in untreated tap water	Germ content of <i>Escherichia coli</i> in tap water treated with aquaBENOVA-CLEAN
1 hour	> 200 <i>Escherichia coli</i> in 100 ml	<i>Escherichia coli</i> not detectable in 100 ml
3 hours	> 200 <i>Escherichia coli</i> in 100 ml	<i>Escherichia coli</i> not detectable in 100 ml

Conclusion:

One litre water was contaminated with a number of 2.4 million *Escherichia coli*. After addition of 1.5 ml aquaBENOVA-CLEAN and an incubation time of 1 hour, the water complied with the "German Drinking Water Ordinance" (TrinkwV 2001; maximum permissible value: *Escherichia coli* not detectable in 100 ml) regarding to the coliform bacterium *Escherichia coli*, since in 100 ml of such treated water no viable *Escherichia coli* could be detected.

Kirkel-Limbach, 28th of January 2013

reviewed and approved

(Dr. Heiko Ewen, Head of Laboratory / Quality Control)

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The results refer exclusively to the tested samples. The accreditation applies for the testing methods denoted in the accreditation. It is prohibited to copy parts of this report without the written authorisation of IBFE GmbH.

Geschäftsführung: Holger Graf

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