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Report No.: 471012-e

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:	18.10.2012
	End of analysis:	20.10.2012

Assay for a test with *Clostridium perfringens*:

2 x 1 litre of sterile tap water were contaminated with *Clostridium perfringens* to get a total cell concentration of 8.2 million *Clostridia* 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 TSC - agar was used for the untreated preparation and respectively 100 ml of the aquaBENOVA-CLEAN treated preparation were filtered according to appendix 5, TrinkwV 2001.

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

Conclusion:

One litre of water was contaminated with a number of 8.2 million *Clostridium perfringens*. 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: *Clostridium perfringens* not detectable in 100 ml) regarding to the germ *Clostridium perfringens*, since in 100 ml of such treated water no viable *Clostridium perfringens* 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.

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