

# Analysis Report

**REPORT NUMBER:**  
925777



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TECHNOLOGICAL  
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Init.: HSA/ENB

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**Item:** Analysis of the product, Bright Water for hygienic hand rub according to DS/EN 13727:2012+A2:2015.

**Sampling:** The assignor

**Period:** Samples received: 24 April 2020  
Test performed: 24 April – 2 May 2020

**Storage:** The test material will be destroyed after 3 months, unless otherwise agreed in writing.

**Remark:** The account of the method(s) used only concerns the analysed sample(s).

**Terms:** This test was conducted in accordance with international requirements (ISO/IEC 17025:2017) and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item(s) or to the sub-sample(s) selected for analysis. This analysis report may be quoted in extract only if Danish Technological Institute has granted its written consent.

**Date/place:** 02 May 2020  
Danish Technological Institute, Aarhus  
Laboratory for Chemistry and Microbiology

**Signature:** Helle Stendahl Andersen  
Business Manager

## Enclosure 1

Test organism: *Pseudomonas aeruginosa*, ATCC 15442, DSM 939

Controls and validation						
	log(FF)	Vc1	Vc2	Value	Control Check	
<b>N</b>	8	62	64	6.3E+09	$1.5 \cdot 10^9 \leq N \leq 5 \cdot 10^9$	Accepted*
<b>Nv</b>	2	60	56	5800	$3000 \leq Nv \leq 16000$	OK
<b>Control A</b>	0	39	40	40	$A \geq 0.5Nv0$	OK
<b>Control B</b>	0	64	85	75	$B \geq 0.5Nv0$	OK
<b>Control C</b>	0	33	49	41	$C \geq 0.5Nv0$	OK

Results						
	log(FF)	Vc1	Vc2	Value	WMC-check	LogR
<b>N</b>	8	62	64	6.3E+09	not relevant	-
<b>Na (Produkt A, 500 ppm)</b>	0	<14	<14	1.4E+02	not relevant	$\geq 5.65$
<b>Na (Produkt A, 250 ppm)</b>	0	<14	<14	1.4E+02	not relevant	$\geq 5.65$
<b>Na (Produkt A, 50 ppm)</b>	0	>165	>165	1.7E+03	not relevant	$\leq 4.58$

\*The test suspension (N) was slightly higher than desired. Since it was still possible to show the relevant log reduction and the small deviation is not considered to have had a significant effect on the efficiency, the test suspension is accepted.

Log(FF) is the log-value of the dilution factor. N is the number of cfu per ml in the test suspension. N0 is the number of cfu per ml in the test mixture at the beginning of the contact time.  $N0 = N/10$ . Nv is the number of cfu per ml in the validation suspension.  $Nv0 = Nv/10$  is the number of cfu in the validation mixtures A, B and C at the beginning of the contact time. A, B and C is the number of cfu per ml following the tests for the experimental conditions (A), the toxicity of the neutralizer (B) and the efficacy of the neutralizer (C). Na is the number of cfu in the test mixture at the end of the contact time. R is the ratio between the starting concentration of cfu and the concentration of cfu following the exposure time. Only cfu counts between 14 and 330 was used for calculations. <14 cfu/plate was used for calculations in case of the undiluted samples showing below 14 cfu/plate. WMC: weighted mean count.

## Enclosure 2

Test organism: *Escherichia coli* K12, DSM 11250 (til hånddesinfektion)

Controls and validation						
	log(FF)	Vc1	Vc2	Value	Control Check	
<b>N</b>	8	94	90	9.2E+09	$1.5 \cdot 10^9 \leq N \leq 5 \cdot 10^9$	Accepted*
<b>Nv</b>	2	158	177	16750	$3000 \leq Nv \leq 16000$	Accepted**
<b>Control A</b>	0	88	82	85	$A \geq 0.5Nv0$	OK
<b>Control B</b>	0	38	39	39	$B \geq 0.5Nv0$	Accepted***
<b>Control C</b>	0	59	69	64	$C \geq 0.5Nv0$	Accepted***

Results						
	log(FF)	Vc1	Vc2	Value	WMC-check	LogR
<b>N</b>	8	94	90	9.2E+09	not relevant	-
<b>Na (Produkt A, 500 ppm)</b>	0	<14	<14	1.4E+02	not relevant	5.82
<b>Na (Produkt A, 250 ppm)</b>	0	<14	<14	1.4E+02	not relevant	5.82
<b>Na (Produkt A, 50 ppm)</b>	0	>165	>165	1.7E+03	not relevant	4.75

\*The test suspension (N) was higher than desired. Since it was still possible to show the relevant log reduction and the small deviation is not considered to have had a significant effect on the efficiency, the test suspension is accepted.

\*\*The validation suspension is slightly higher than desired but is still accepted.

\*\*\*There was a slight toxic effect of the filter and rinse agent (control B + C). The effect of toxicity beyond the normal acceptance limits corresponds to 0.34 log units. Since the effect of the product at 500 and 250 ppm exceeds this effect by more than log 5, it is considered irrelevant for evaluation of the effect of the product.

Log(FF) is the log-value of the dilution factor. N is the number of cfu per ml in the test suspension. N0 is the number of cfu per ml in the test mixture at the beginning of the contact time.  $N0 = N/10$ . Nv is the number of cfu per ml in the validation suspension.  $Nv0 = Nv/10$  is the number of cfu in the validation mixtures A, B and C at the beginning of the contact time. A, B and C is the number of cfu per ml following the tests for the experimental conditions (A), the toxicity of the neutralizer (B) and the efficacy of the neutralizer (C). Na is the number of cfu in the test mixture at the end of the contact time. R is the ratio between the starting concentration of cfu and the concentration of cfu following the exposure time. Only cfu counts between 14 and 330 was used for calculations. <14 cfu/plate was used for calculations in case of the undiluted samples showing below 14 cfu/plate. WMC is the weighted mean count.

## Enclosure 3

Test organism: *Staphylococcus aureus*, ATCC 6538, DSM 799

Controls and validation						
	log(FF)	Vc1	Vc2	Value	Control Check	
<b>N</b>	8	61	61	6.1E+09	$1.5 \cdot 10^9 \leq N \leq 5 \cdot 10^9$	Accepted*
<b>Nv</b>	2	133	136	13450	$3000 \leq Nv \leq 16000$	OK
<b>Control A</b>	0	227	243	235	$A \geq 0.5Nv0$	OK
<b>Control B</b>	0	112	103	108	$B \geq 0.5Nv0$	OK
<b>Control C</b>	0	78	80	79	$C \geq 0.5Nv0$	OK

Results						
	log(FF)	Vc1	Vc2	Value	WMC-check	LogR
<b>N</b>	8	61	61	6.1E+09	not relevant	-
<b>Na (Produkt A, 500 ppm)</b>	0	<14	<14	1.4E+02	not relevant	5.64
<b>Na (Produkt A, 250 ppm)</b>	0	<14	<14	1.4E+02	not relevant	5.64
<b>Na (Produkt A, 50 ppm)</b>	0	>165	>165	1.7E+03	not relevant	4.57

\*The test suspension (N) was slightly higher than desired. Since it was still possible to show the relevant log reduction and the small deviation is not considered to have had a significant effect on the efficiency, the test suspension is accepted.

Log(FF) is the log-value of the dilution factor. N is the number of cfu per ml in the test suspension. N0 is the number of cfu per ml in the test mixture at the beginning of the contact time.  $N0 = N/10$ . Nv is the number of cfu per ml in the validation suspension.  $Nv0 = Nv/10$  is the number of cfu in the validation mixtures A, B and C at the beginning of the contact time. A, B and C is the number of cfu per ml following the tests for the experimental conditions (A), the toxicity of the neutralizer (B) and the efficacy of the neutralizer (C). Na is the number of cfu in the test mixture at the end of the contact time. R is the ratio between the starting concentration of cfu and the concentration of cfu following the exposure time. Only cfu counts between 14 and 330 was used for calculations. <14 cfu/plate was used for calculations in case of the undiluted samples showing below 14 cfu/plate. WMC is the weighted mean count.

## Enclosure 4

Test organism: *Enterococcus hirae*, ATCC 10541, DSM 3320

Controls and validation						
	log(FF)	Vc1	Vc2	Value	Control Check	
<b>N</b>	8	45	37	4.1E+09	$1.5 \cdot 10^9 \leq N \leq 5 \cdot 10^9$	OK
<b>Nv</b>	2	71	57	6400	$3000 \leq Nv \leq 16000$	OK
<b>Control A</b>	0	59	62	61	$A \geq 0.5Nv0$	OK
<b>Control B</b>	0	42	38	40	$B \geq 0.5Nv0$	OK
<b>Control C</b>	0	60	59	60	$C \geq 0.5Nv0$	OK

Results						
	log(FF)	Vc1	Vc2	Value	WMC-check	LogR
<b>N</b>	8	45	37	4.1E+09	not relevant	-
<b>Na (Produkt A, 500 ppm)</b>	0	<14	<14	1.4E+02	not relevant	$\geq 5.47$
<b>Na (Produkt A, 250 ppm)</b>	0	<14	<14	1.4E+02	not relevant	$\geq 5.47$
<b>Na (Produkt A, 50 ppm)</b>	0	>165	>165	1.7E+03	not relevant	$\leq 4.40$

Log(FF) is the log-value of the dilution factor. N is the number of cfu per ml in the test suspension. N0 is the number of cfu per ml in the test mixture at the beginning of the contact time.  $N0 = N/10$ . Nv is the number of cfu per ml in the validation suspension.  $Nv0 = Nv/10$  is the number of cfu in the validation mixtures A, B and C at the beginning of the contact time. A, B and C is the number of cfu per ml following the tests for the experimental conditions (A), the toxicity of the neutralizer (B) and the efficacy of the neutralizer (C). Na is the number of cfu in the test mixture at the end of the contact time. R is the ratio between the starting concentration of cfu and the concentration of cfu following the exposure time. Only cfu counts between 14 and 330 was used for calculations. <14 cfu/plate was used for calculations in case of the undiluted samples showing below 14 cfu/plate. WMC: weighted mean count.