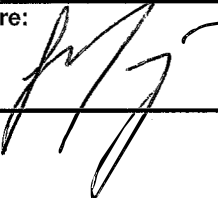
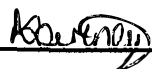


Sample received date:		2018/05/14	
Sample testing date:		2018/05/14	
Customer:		ADI	
Product name:		ADI	
Batch No:		ADI 5.5g = 10L	
Manufacturer:		ADI	
Sample condition:		Received in good order	
Storage conditions:		Store in closed container, in a cool ventilated area.	
Antimicrobial agent:		Oxidative components	
Appearance of the product:		White powder	
Dilution neutralization method:			
	<input checked="" type="checkbox"/>	Pour plate	<input type="checkbox"/> Spread plate
Neutralizing solution:		Sodium thiosulphate, Polysorbate 80	
Product diluent:		Hard Water	
Test temperature:		20°C	
Interfering substances:			
	<input checked="" type="checkbox"/>	Bovine albumin	<input type="checkbox"/> Skimmed milk
	<input type="checkbox"/>	Yeast extract	<input type="checkbox"/> Sucrose
	<input type="checkbox"/>	Sodium dodecyl sulphate	
Internal lab number:		AGR05/18/0088	
Date	Comment		
2018/05/14	pH of 0.55 g/L sample is 7.14		
	pH of 5.5 g/L sample is 2.35		
Date test completed: 2018/05/16	Responsible person: Schare	Signature: 	Checked by: Nackara
			Signature: 

Results expression:

The counting is expressed in CFU (Colony Forming Unit) per milliliter of test product.

$V_c$  = Number of CFU counted per 1ml sample.

$N_v$  = Number of cells per ml in validation suspension (Count  $\times$  Dilution).

$N_{v_0}$  = Number of cells per ml of A, B and C solutions at the beginning of contact time.

A = Validation of the selected experimental conditions and verification of the absence of any lethal effects in the test conditions.

B = Verification of the absence of toxicity of the neutralizer.

C = Dilution-neutralization validation

A, B and C = Number of cells per ml in A, B and C solutions at the end of contact time.

N = Number of cells per ml in the assay suspension.

$N_0$  = Number of cells per ml in the assay suspension at the beginning of contact time.

$N_0 = N/10$

$N_a$  = Number of cells per ml in assay suspension at the end of contact time.

Ig = Log

R = Log reduction

$\bar{x}$  = Average

Equipment Used:	
Lab no.	2
Thermometer:	MCL 1184
Pipette:	MICRO 027
Pipette tips batch:	Pipette/2018/03/14/01
Balance:	MICRO 006
Petri dishes batch:	Petri/2018/03/14/02
Laminar Flow:	MICRO 015
pH Meter:	MICRO 005
Water Bath:	MICRO 032
Density meter:	MICRO 0

QC:	Culture Lot no.	Media	Prep Date	Blank	Positive	Negative
Bacteria	680-59-2	Tryptone Soya Agar	14/05/2018	P	P	N/A
Yeast	443-723-4	Malt Extract Agar				N/A
Mould	392-640-7	Malt Extract Agar				N/A
Diluent	680-59-2	Buffered Peptone Water	09/04/2018	P	P	N/A
Neutralizer	N/A	Sodium thiosulphate	14/05/2018	P	N/A	N/A
Hard water	N/A	MgCl <sub>2</sub> , CaCl <sub>2</sub> , NaHCO <sub>3</sub>	14/05/2019	P	N/A	N/A
Interfering substance	N/A	Albumin bovine	14/05/2020	P	N/A	N/A
Glass beads	N/A	TSA/MEA	14/05/2021	P	N/A	N/A
Autoclaved water	N/A	TSA	14/05/2022	P	N/A	N/A
Live cultures	N/A	N/A	14/05/2023	N/A	N/A	N/A

Positive Control:	Bacteria= <i>E.coli</i> , Yeast= <i>Candida albicans</i> , Mould= <i>Aspergillus niger</i>
Negative Control:	N/A

Conditions:	Clean Conditions, 3g/100ml Albumin
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Experimental conditions:

Test organism	Reference	N	Test temp.	Contact time(min)	Incubation time(hours)	Incubation	Used
<i>Candida albicans</i>	ATCC 10231		20°C	15	42 - 48	MICRO 013@30°C	
<i>Aspergillus niger</i>	ATCC 16404		20°C	15	48 - 72	MICRO 013@30°C	
<i>Saccharomyces cerevisiae</i>	DSM 1333		20°C	15	42 - 48	MICRO 013@30°C	
<i>Saccharomyces cerevisiae var. diastaticus</i>	DSM 70487		20°C	15	42 - 48	MICRO 013@30°C	
<i>Pseudomonas aeruginosa</i>	ATCC 15442	0.53	20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	X
<i>Escherichia coli</i>	ATCC 10536	0.51	20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	X
<i>Staphylococcus aureus</i>	ATCC 6538	0.51	20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	X
<i>Enterococcus hirae</i>	ATCC 10541	0.52	20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	X
<i>Salmonella typhimurium</i>	ATCC 13311		20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	
<i>Lactobacillus brevis</i>	DSM 6235		20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	
<i>Enterobacter cloacae</i>	DSM 6233		20°C	4 or 1 for hands disinfection	23 - 48	MICRO 011@36°C	
<i>Listeria monocytogenes</i>	ATCC 7644		20°C	5 or 1 for hands disinfection	24 - 48	MICRO 011@36°C	

Note: Allowed deviation for temperature(°C) is ± 1 °C

Note: Allowed deviation for contact time(min) is ± 10 s, except for 1 min which is ± 5 s

Note: McFarland levels (N) must be between 0,5 - 1. Density meter is used to read McFarland levels. If McFarland levels are between 0,5 - 1 it complies with 5.7.3 a) in the standard.

Validations:

Validation and controls for Yeastcidal activity for *Candida albicans*

Validation suspension Nvo		Experimental Condition [A] control		Neutralizer or filtration control [B]		Method validation [C], concentration: 80%		Product	
Vc1	x <sup>-</sup> =	Vc1	x <sup>-</sup> =	Vc1	x <sup>-</sup> =	Vc1	x <sup>-</sup> =		x <sup>-</sup> =
Vc2	0	Vc2	0	Vc2	0	Vc2	0		0
30s <sup>x</sup> of [Nv] <sub>0</sub> ≤ 160?	Yes	x <sup>-</sup> of A is ≥ 0.5	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [Nv] <sub>0</sub> ?	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [Nv] <sub>0</sub> ?	Yes		Yes
	No	X x <sup>-</sup> of [Nv] <sub>0</sub> ?	No		No		No		No
Signature:				Date and time completed:					

Validation and controls for Fungicidal activity for *Aspergillus niger*

Validation suspension Nvo		Experimental Condition [A] control		Neutralizer or filtration control [B]		Method validation [C], concentration: 80%		Product	
Vc1	x <sup>-</sup> =	Vc1	x <sup>-</sup> =	Vc1	x <sup>-</sup> =	Vc1	x <sup>-</sup> =		x <sup>-</sup> =
Vc2	0	Vc2	0	Vc2	0	Vc2	0		0
30s <sup>x</sup> of [Nv] <sub>0</sub> ≤ 160?	Yes	x <sup>-</sup> of A is ≥ 0.5	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [Nv] <sub>0</sub> ?	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [Nv] <sub>0</sub> ?	Yes		Yes
	No	X x <sup>-</sup> of [Nv] <sub>0</sub> ?	No		No		No		No
Signature:				Date and time completed:					

Validation and controls for Bactericidal activity for *Pseudomonas aeruginosa*

Validation suspension Nvo		Experimental Condition [A] control		Neutralizer or filtration control [B]		Method validation [C], concentration: 80%		Product	
Vc1	113 x <sup>-</sup> =	Vc1	62 x <sup>-</sup> =	Vc1	58 x <sup>-</sup> =	Vc1	64 x <sup>-</sup> =		x <sup>-</sup> =
Vc2	110 111.5	Vc2	63 62.5	Vc2	62 60	Vc2	61 62.5		
30s <sup>x</sup> of [Nv] <sub>0</sub> ≤ 160?	X Yes	x <sup>-</sup> of A is ≥ 0.5	X Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [Nv] <sub>0</sub> ?	X Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [Nv] <sub>0</sub> ?	X Yes		Yes
	No	X x <sup>-</sup> of [Nv] <sub>0</sub> ?	No		No		No		No
Signature:				Date and time completed:				16/05/2018 15:00	

Validation and controls for Bactericidal activity for *Escherichia coli*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%		Product
Vc1	76	x <sup>-</sup>	Vc1	39	x <sup>-</sup>	Vc1	43	x <sup>-</sup>	Vc1	42	x <sup>-</sup>
Vc2	81	78.5	Vc2	41	40	Vc2	45	44	Vc2	40	41
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	X	Yes	x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes
		No			No			No			No
Signature:						Date and time completed:			16/05/2018 15:00		

Validation and controls for Bactericidal activity for *Staphylococcus aureus*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%		Product
Vc1	148	x <sup>-</sup>	Vc1	72	x <sup>-</sup>	Vc1	73	x <sup>-</sup>	Vc1	77	x <sup>-</sup>
Vc2	145	146.5	Vc2	74	73	Vc2	76	74.5	Vc2	72	74.5
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	X	Yes	x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes
		No			No			No			No
Signature:						Date and time completed:			16/05/2018 15:00		

Validation and controls for Bactericidal activity for *Enterococcus hirae*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%		Product
Vc1	62	x <sup>-</sup>	Vc1	41	x <sup>-</sup>	Vc1	37	x <sup>-</sup>	Vc1	43	x <sup>-</sup>
Vc2	68	65	Vc2	39	40	Vc2	42	39.5	Vc2	39	41
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	X	Yes	x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	X	Yes
		No			No			No			No
Signature:						Date and time completed:			16/05/2018 15:00		

Validation and controls for Bactericidal activity for *Salmonella thyphimurium*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%		Product
Vc1		x <sup>-</sup>	Vc1		x <sup>-</sup>	Vc1		x <sup>-</sup>	Vc1		x <sup>-</sup>
Vc2		0	Vc2		0	Vc2		0	Vc2		0
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	Yes	Yes	x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes	Yes
		No			No			No			No
Signature:						Date and time completed:					

Validation and controls for Bactericidal activity for *Lactobacillus brevis*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%		Product
Vc1		x <sup>-</sup>	Vc1		x <sup>-</sup>	Vc1		x <sup>-</sup>	Vc1		x <sup>-</sup>
Vc2		0	Vc2		0	Vc2		0	Vc2		0
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	Yes	Yes	x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes	Yes	x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes	Yes	x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes	Yes
		No			No			No			No
Signature:						Date and time completed:					

Validation and controls for Bactericidal activity for *Enterobacter cloacae*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%			Product
Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	
Vc2		0	Vc2		0	Vc2		0	Vc2		0	0
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	Yes		x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		Yes
	No			No			No			No		No
<b>Signature:</b>						<b>Date and time completed:</b>						

Validation and controls for Yeasticidal activity for *Saccharomyces cerevisiae*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%			Product
Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	
Vc2		0	Vc2		0	Vc2		0	Vc2		0	0
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	Yes		x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		Yes
	No			No			No			No		No
<b>Signature:</b>						<b>Date and time completed:</b>						

Validation and controls for Yeasticidal activity for *Saccharomyces cerevisiae* var. *diastaticus*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%			Product
Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	
Vc2		0	Vc2		0	Vc2		0	Vc2		0	0
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	Yes		x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		Yes
	No			No			No			No		No
<b>Signature:</b>						<b>Date and time completed:</b>						

Validation and controls for Bactericidal activity for *Listeria monocytogenes*

Validation suspension Nvo			Experimental Condition control [A]			Neutralizer or filtration control [B]			Method validation [C], concentration: 80%			Product
Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	Vc1		x <sup>-</sup> =	
Vc2		0	Vc2		0	Vc2		0	Vc2		0	0
30 ≤ x <sup>-</sup> of [(Nv)] <sub>0</sub> ≤ 160?	Yes		x <sup>-</sup> of A is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of B is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		x <sup>-</sup> of C is ≥ 0.5 X x <sup>-</sup> of [(Nv)] <sub>0</sub> ?	Yes		Yes
	No			No			No			No		No
<b>Signature:</b>						<b>Date and time completed:</b>						

Test suspension and Test for Yeasticidal activity for *Candida albicans*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄wm=sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = lgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

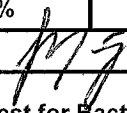
Test suspension and Test for Fungicidal activity for *Asbergillus niger*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄wm=sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = lgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

Test suspension and Test for Bactericidal activity for *Pseudomonas aeruginosa*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄wm=sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>	330	330				
		10 <sup>(-7)</sup>	33	33	726		8.26	7.26
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = lgR	Contact time (min)	
Low:	80.00%	330	330	3300	3.518514	3.740362689	5	
Medium:				0	#NUM!	#NUM!	5	
High:	800.00%	1	1	10	1	6.258876629	5	
Pos. con.	800.00%	1	1	10	1	6.258876629	5	
Neg. con.	0.01%	330	330	3300	3.518514	3.740362689	5	
Signature:		Date and time completed: 2018/05/16 15:00						

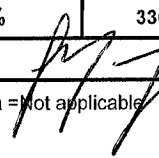
Test suspension and Test for Bactericidal activity for *Escherichia coli*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄wm=sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>
		10 <sup>(-6)</sup>	330	330			
10 <sup>(-7)</sup>	33	33		726	8.258876629	7.258876629	
<b>7.17 ≤ lgN<sub>0</sub> ≤ 7.70?</b>							
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = IgR	Contact time (min)
Low:	80.00%	330	330	3300	3.518514	3.740362689	5
Medium:				0	#NUM!	#NUM!	5
High:	800.00%	1	1	10	1	6.258876629	5
Pos. con.	800.00%	1	1	10	1	6.258876629	5
Neg. con.	0.01%	330	330	3300	3.518514	3.740362689	5
Signature: 		Date and time completed:			2018/05/16 15:00		

Test suspension and Test for Bactericidal activity for *Staphylococcus aureus*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄wm=sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>
		10 <sup>(-6)</sup>	330	330			
10 <sup>(-7)</sup>	33	33		726	8.258876629	7.258876629	
<b>7.17 ≤ lgN<sub>0</sub> ≤ 7.70?</b>							
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = IgR	Contact time (min)
Low:	80.00%	330	330	3300	3.518514	3.740362689	5
Medium:				0	#NUM!	#NUM!	5
High:	800.00%	0	2	10	1	6.258876629	5
Pos. con.	800.00%	0	2	10	1	6.258876629	5
Neg. con.	0.01%	330	330	3300	3.518514	3.740362689	5
Signature:		Date and time completed:			2018/05/16 15:00		

Test suspension and Test for Bactericidal activity for *Enterococcus hirae*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄wm=sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>
		10 <sup>(-6)</sup>	330	330			
10 <sup>(-7)</sup>	33	33		726	8.258876629	7.258876629	
<b>7.17 ≤ lgN<sub>0</sub> ≤ 7.70?</b>							
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = IgR	Contact time (min)
Low:	80.00%	330	330	3300	3.518514	3.740362689	5
Medium:					#NUM!	#NUM!	5
High:	800.00%	1	1	10	1	6.258876629	5
Pos. con.	800.00%	1	1	10	1	6.258876629	5
Neg. con.	0.01%	330	330	3300	3.518514	3.740362689	5
Signature: 		Date and time completed:			2018/05/16 15:00		

Test suspension and Test for Bactericidal activity for *Salmonella typhimurium*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄ - wm = sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = IgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

Test suspension and Test for Bactericidal activity for *Lactobacillus brevis*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄ - wm = sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = IgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

Test suspension and Test for Bactericidal activity for *Enterobacter cloacae*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄ - wm = sum Vc/0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = IgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						



Test suspension and Test for Yeasticidal activity for *Saccharomyces cerevisiae*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄ - wm = sum Vc / 0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = lgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

Test suspension and Test for Yeasticidal activity for *Saccharomyces cerevisiae* var. *diastaticus*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄ - wm = sum Vc / 0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>						
		10 <sup>(-7)</sup>				0	#NUM!	#NUM!
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = lgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

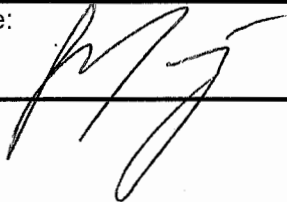
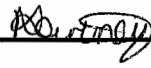
Test suspension and Test for Bactericidal activity for *Listeria monocytogenes*

Test suspension (N and N <sub>0</sub> )		N	Vc1	Vc2	Sum Vc	lg(x̄ - wm = sum Vc / 0.000004)	lgN/10 = lgN <sub>0</sub>	
		10 <sup>(-6)</sup>	10	10				
		10 <sup>(-7)</sup>	10	10		40	7	6
7.17 ≤ lgN <sub>0</sub> ≤ 7.70?								
Conc. of the product (%)		Vc1	Vc2	Na = x̄ × 10	lgNa	lgN <sub>0</sub> - lgNa = lgR	Contact time (min)	
Low:				0	#NUM!	#NUM!	5	
Medium:				0	#NUM!	#NUM!	5	
High:				0	#NUM!	#NUM!	5	
Pos. con.	80%			0	#NUM!	#NUM!	5	
Neg. con.	0.01%			0	#NUM!	#NUM!	5	
Signature:		Date and time completed:						

**Conclusion:**

The test product is required to produce a log5 or 99.999% reduction to have passed EN 1276:2009 under the conditions; 5 min or 1 min (hand disinfectant) at 20 °C , chosen interfering substance, and simulating clean or dirty conditions when the test organisms are *Pseudomonas aeruginosa*, *Escherichia coli*, *Staphylococcus aureus* and *Enterococcus hirae*.

The prouct ADI, batch number: ADI 5.5g = 10L, failed EN 1276. The product does not comply with the above statement. The concentration tested, 5.5g/10L, did not produce a log5 reduction for *Pseudomonas aeruginosa*, *Escherichia coli*, *Staphylococcus aureus* or *Enterococcus hirae*. The product ADI, batch number: ADI 5.5g = 10L, passed EN 1276 when a concentration of 5.5g/L was tested. The concentration tested, 5.5g/L, produce a log5 reduction for *Pseudomonas aeruginosa*, *Escherichia coli*, *Staphylococcus aureus* or *Enterococcus hirae*, therefor the product complies with the above statement at a concentration of 5.5g/L.

Statement written by: Schare	Signiture: 	Statement checked by: Nodens	Signiture: 
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