Testing Worksheet General-Purpose Disinfectant Product
BS EN 1276:2019

UKAS TESTING 8615

Company Name:	Liquid Medical Ltd
Contact Name:	Tom Egerstrom
Contact Email:	info@liquidmedical.co.uk
Purchase Order No:	LMDC200-2
Report Date:	07/07/2020
Melbec Ref Number:	17592
No. of Samples:	1
Name of Test Product:	HOCL/General Disinfectant Name - Liquid Medical Disinfectant Clear 200
Batch Number:	UKAA20060101

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Sample Details:

Manufacture / Supplier:.....	Liquid Medical Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear liquid
Appearance of the product (after dilution):.....	N/a
Appearance of product with interfering substance and test organism:	Clear liquid
Active substance and concentration:.....	HOCL
Product dilutions/concentrations:.....	Ready to Use (RTU)
Diluent used to dilute product:.....	N/A
Incubation temperature:	36 degrees

The test product was in satisfactory condition for testing when received.

Date product received: 03/06/20 Test Date: 06/05/20

Experimental Conditions:

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	18 to 25 ˚C
Contact time:	2 Minutes
Test organisms:	Pseudomonas aeruginosa ATCC 15442
	Staphylococcus aureus ATCC 6538
	Escherichia coli ATCC 10536
	Enterococcus hirae ATCC 10541

Requirements of the Standard:

The test product shall demonstrate at least a 5 decimal logarithm (lg) reduction when tested in accordance with this standard under simulated clean or dirty conditions.

Conclusion:

For the product HOCL/General Disinfectant Name - Liquid Medical Disinfectant Clear 200, [UKAA20060101] the log reduction requirements as specified in EN 1276:2019 (5 lg) were met with a 2 minute contact time.

Testing carried out by:

Name: Yvie Newall
Position: Senior Microbiologist

Report authorised by:

Name: Dawn Mellors
Position: Technical Director
Date: 07/07/2020

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used N1

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Pseudomonas aeruginosa ATCC 15442

Validation and controls

Melbec Ref No	**17592**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	48	$\bar{x}$ =	*Vc* 1	39	$\bar{x}$ =	*Vc* 1	54	$\bar{x}$ =	*Vc* 1	28	$\bar{x}$ =
Vc 2	31	39.5	*Vc* 2	37	38	*Vc* 2	44	49	*Vc* 2	27	27.5
30 ≤ $\bar{x}$ of Nv_0 ≤ 160? **Yes**			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**		

Test suspension and test

	N	*Vc* 1	*Vc* 2		
Test suspension (*N* and N_0):	10^{-6}	>330	>330	X m 3.65E+08 ; lg *N* =	8.56
				$N_0 = N/10$; lg N_0=	7.56
	10^{-7}	37	36	7.17 ≤ lgN_0 ≤ 7.70?	Yes
				$\bar{x}$ quotient = >5 and <15?	N/A

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{x}$ *x10*	lg*Na*	lg*R* N_0 = 7.56		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.42	2 Minutes	**Pass**

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Staphylococcus aureus ATCC 6538

Validation and controls

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Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	65	$\bar{x}$ =	*Vc* 1	73	$\bar{x}$ =	*Vc* 1	92	$\bar{x}$ =	*Vc* 1	81	$\bar{x}$ =
Vc 2	56	60.5	*Vc* 2	63	68	*Vc* 2	80	86	*Vc* 2	78	79.5
30 ≤ $\bar{x}$ of Nv_0 ≤ 160? **Yes**			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**		

Test suspension and test

Test suspension (*N* and N_0):	***N***	*Vc* 1	*Vc* 2			
	10^{-6}	>330	>330	X m	3.00E+08	; lg *N* = 8.48
				$N_0 = N/10$	; lg N_0=	7.48
	10^{-7}	32	28	7.17 ≤ lgN_0 ≤ 7.70?		Yes
				$\bar{x}$ quotient = >5 and <15?		N/A

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{x}$ *x10*	lg*Na*	lg*R* N_0 = 7.48		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.33	2 Minutes	**Pass**

Escherichia coli ATCC 10536

Validation and controls

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Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	51	$\bar{x}$ =	*Vc* 1	73	$\bar{x}$ =	*Vc* 1	110	$\bar{x}$ =	*Vc* 1	77	$\bar{x}$ =
Vc 2	48	49.5	*Vc* 2	60	66.5	*Vc* 2	98	104	*Vc* 2	53	65
30 ≤ $\bar{x}$ of Nv_0 ≤ 160? **Yes**			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**		

Test suspension and test

Test suspension (***N*** **and** N_0):	***N***	*Vc* 1	*Vc* 2			
	10^{-6}	>330	>330	X m	3.50E+08	; lg *N* = 8.54
				$N_0 = N/10$	; lg N_0=	7.54
	10^{-7}	37	33	7.17 ≤ lgN_0 ≤ 7.70?		Yes
				$\bar{x}$ quotient = >5 and <15?		N/A

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{x}$ *x10*	lg*Na*	lg*R* N_0 =	7.54	Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.40	2 Minutes	**Pass**

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Enterococcus hirae ATCC 10541

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Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	89	$\bar{x}$ =	*Vc* 1	98	$\bar{x}$ =	*Vc* 1	118	$\bar{x}$ =	*Vc* 1	78	$\bar{x}$ =
Vc 2	70	79.5	*Vc* 2	95	96.5	*Vc* 2	103	110.5	*Vc* 2	69	73.5
30 ≤ $\bar{x}$ of Nv_0 ≤ 160? **Yes**			$\bar{x}$ of A is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of B is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of C is ≥ 0.5 x $\bar{x}$ of Nv_0? **Yes**		

Test suspension and test

Test suspension (***N*** **and** N_0):	***N***	*Vc* 1	*Vc* 2	X m 3.10E+08 ; lg *N* = 8.49
	10^{-6}	>330	>330	$N_0 = N/10$; lg N_0= 7.49
	10^{-7}	33	29	7.17 ≤ lgN_0 ≤ 7.70? Yes
				$\bar{x}$ quotient = >5 and <15? N/A

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{x}$ *x10*	lg*Na*	lg*R* N_0 = 7.49		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.35	2 Minutes	**Pass**