Test Report for a Hand Rub Product
BS EN 1276:2019

UKAS TESTING
8615

Company Name:	ORCAGEL Ltd
Contact Name:	C.Whiteside
Contact Email:	technical@orcagel.com
Report Date:	26/05/2020
Melbec Ref Number:	16988
No. of Samples:	1
Name of Test Product:	Hand Rub
Batch Number:	N/A

Test Report for a Hand Rub Product
BS EN 1276:2019

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Sample Details:

Manufacture / Supplier:.....	Orcagel Ltd
Product storage conditions:.....	Ambient Clear
Appearance of the product (as supplied):.....	Gel
Appearance of the product (after dilution):.....	NA
Appearance of product with interfering substance and test organism:	Clear Gel
Active substance and concentration:.....	Ethanol
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: 07/05/20 Test Date: 14/05/20

Experimental Conditions:

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	18 to 25 ˚C
Contact time:	30 Seconds
Test organisms:	Pseudomonas aeruginosa ATCC 15442
	Staphylococcus aureus ATCC 6538
	Escherichia coli K12 NCTC 10538
	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 Hand Rub, [N/A] the log reduction requirements as specified in EN 1276:2019 (5 lg within the relevant contact time) were met.

Testing carried out by:

Name: Danika Weatherburn
Position: Laboratory Manager

Report authorised by:

Name: Dawn Mellors
Position: Technical Director
Date: 26/05/2020

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used

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Pseudomonas aeruginosa ATCC 15442

Validation and controls

Melbec Ref No	**16988**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	70	$\bar{x}$ =	*Vc* 1	54	$\bar{x}$ =	*Vc* 1	70	$\bar{x}$ =	*Vc* 1	73	$\bar{x}$ =
Vc 2	58	64	*Vc* 2	51	52.5	*Vc* 2	64	67	*Vc* 2	66	69.5
$30 \le \bar{x}$ of $Nv_0 \le 160$? **Yes**			$\bar{x}$ of A is $\ge 0.5 \times \bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of B is $\ge 0.5 \times \bar{x}$ of Nv_0? **Yes**			$\bar{x}$ of C is $\ge 0.5 \times \bar{x}$ 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 3.25E+08	; lg *N* =	8.51
				$N_0 = N/10$	; lg N_0=	7.51
	10^{-7}	33	32	$7.17 \le \lg N_0 \le 7.70$?		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 = 7.51		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.37	30 Seconds	**Pass**

UKAS TESTING 8615

Staphylococcus aureus ATCC 6538

Validation and controls

Melbec Ref No	**16988**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	105	$\bar{x}$ =	*Vc* 1	133	$\bar{x}$ =	*Vc* 1	98	$\bar{x}$ =	*Vc* 1	83	$\bar{x}$ =
Vc 2	83	94	*Vc* 2	131	132	*Vc* 2	91	94.5	*Vc* 2	79	81
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	4.00E+08	; lg *N* = 8.60
				$N_0 = N/10$	; lg N_0=	7.60
	10^{-7}	41	39	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 = 7.60		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.46	30 Seconds	**Pass**

Escherichia coli K12 NCTC 10538

Validation and controls

Melbec Ref No	**16988**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	75	$\bar{x}$ =	*Vc* 1	68	$\bar{x}$ =	*Vc* 1	64	$\bar{x}$ =	*Vc* 1	79	$\bar{x}$ =
Vc 2	72	73.5	*Vc* 2	64	66	*Vc* 2	61	62.5	*Vc* 2	52	65.5
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}	203	108	X wm 1.60E+08 ; lg *N* =	8.20
				$N_0 = N/10$; lg N_0=	7.20
	10^{-7}	25	16	7.17 ≤ lgN_0 ≤ 7.70? Yes	
				$\bar{x}$ quotient = >5 and <15?	7.59

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{x}$ *x10*	lg*Na*	lg*R* N_0 = 7.20		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.06	30 Seconds	**Pass**

UKAS TESTING 8615

Enterococcus hirae ATCC 10541

Validation and controls

Melbec Ref No	**16988**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	80	$\bar{x}$ =	*Vc* 1	91	$\bar{x}$ =	*Vc* 1	78	$\bar{x}$ =	*Vc* 1	84	$\bar{x}$ =
Vc 2	70	75	*Vc* 2	78	84.5	*Vc* 2	63	70.5	*Vc* 2	77	80.5
$30 \le \bar{X}$ of $Nv_0 \le 160$? **Yes**			$\bar{X}$ of A is $\ge 0.5 \times \bar{X}$ of Nv_0? **Yes**			$\bar{X}$ of B is $\ge 0.5 \times \bar{X}$ of Nv_0? **Yes**			$\bar{X}$ of C is $\ge 0.5 \times \bar{X}$ of Nv_0? **Yes**		

Test suspension and test

Test suspension (*N* and N_0):	***N***	*Vc* 1	*Vc* 2		
	10^{-6}	265	263	X wm 2.58E+08 ; lg *N* =	8.41
				$N_0 = N/10$; lg N_0=	7.41
	10^{-7}	23	16	$7.17 \le \lg N_0 \le 7.70$?	Yes
				$\bar{X}$ quotient = >5 and <15?	13.54

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{X}$ *x10*	lg*Na*	lg*R* N_0 = 7.41		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.27	30 Seconds	**Pass**