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

8615

Company Name:	HealthGuard Hygiene Ltd
Contact Name:	Anca Palade
Contact Email:	info@healthguardhygiene.com
Purchase Order No:	N/A
Report Date:	27/06/2020
Melbec Ref Number:	15729
No. of Samples:	1
Name of Test Product:	70% Alcohol Hand Sanitiser
Batch Number:	N/A

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

8615

Sample Details:

Manufacture / Supplier:.....	HealthGuard Hygiene Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	Clear Gel
Appearance of the product (after dilution):.....	Clear Gel
Appearance of product with interfering substance and test organism:	Opaque thin Gel
Active substance and concentration:.....	Alcohol
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: 18/03/20 Test Date: 20/03/20

Experimental Conditions:

Interfering substance:	Bovine Albumin (clean 0.3g/l)
Test temperature:	18 to 25 ˚C
Contact time:	1 Minutes
Test organisms:	Pseudomonas aeruginosa ATCC 15442
	Escherichia coli K12 NCTC 10538
	Staphylococcus aureus ATCC 6538
	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 70% Alcohol Hand Sanitiser, [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: 27/06/2020

Test Results:

Neutralisation Method Used:

Dilution neutralisation by pour plate

Neutraliser used N1

UKAS TESTING 8615

Pseudomonas aeruginosa ATCC 15442

Validation and controls

Melbec Ref No	**15729**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	83	$\bar{x}$ =	*Vc* 1	88	$\bar{x}$ =	*Vc* 1	71	$\bar{x}$ =	*Vc* 1	79	$\bar{x}$ =
Vc 2	68	75.5	*Vc* 2	74	81	*Vc* 2	74	72.5	*Vc* 2	50	64.5
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}	273	257	X wm 2.73E+08 ; lg *N* =	8.44	
				$N_0 = N/10$; lg N_0=	7.44	
	10^{-7}	43	27	7.17 ≤ lgN_0 ≤ 7.70?	Yes	
				$\bar{x}$ quotient = >5 and <15?		7.57

Conc. of the active (%)	*Vc* 1	*Vc* 2	*Na* = $\bar{x}$ *x10*	lg*Na*	lg*R* N_0 = 7.44		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.29	1 Minutes	**Pass**

Escherichia coli K12 NCTC 10538

Validation and controls

Melbec Ref No	**15729**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc: RTU		
Vc 1	87	$\bar{x}$ =	*Vc* 1	88	$\bar{x}$ =	*Vc* 1	100	$\bar{x}$ =	*Vc* 1	89	$\bar{x}$ =
Vc 2	80	83.5	*Vc* 2	69	78.5	*Vc* 2	88	94	*Vc* 2	82	85.5
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}	315	299	X wm 3.09E+08 ; lg *N* =	8.49
				$N_0 = N/10$; lg N_0=	7.49
	10^{-7}	36	30	7.17 ≤ lgN_0 ≤ 7.70?	Yes
				$\bar{x}$ quotient = >5 and <15?	9.30

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		>5.34	1 Minutes	**Pass**

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

UKAS TESTING 8615

Staphylococcus aureus ATCC 6538

Validation and controls

Melbec Ref No	**15729**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	108	$\bar{x}$ =	*Vc* 1	123	$\bar{x}$ =	*Vc* 1	128	$\bar{x}$ =	*Vc* 1	112	$\bar{x}$ =
Vc 2	99	103.5	*Vc* 2	110	116.5	*Vc* 2	142	135	*Vc* 2	96	104
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 4.80E+08	; lg *N* =	8.68
				$N_0 = N/10$	; lg N_0=	7.68
	10^{-7}	50	46	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 = 7.68		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.54	1 Minutes	**Pass**

Enterococcus hirae ATCC 10541

Validation and controls

Melbec Ref No	**15729**

Validation suspension (Nv_0)			Experimental conditions control (***A***)			Neutralizer control (***B***)			Method validation (***C***) Product conc:		RTU
Vc 1	87	$\bar{x}$ =	*Vc* 1	85	$\bar{x}$ =	*Vc* 1	93	$\bar{x}$ =	*Vc* 1	105	$\bar{x}$ =
Vc 2	81	84	*Vc* 2	68	76.5	*Vc* 2	87	90	*Vc* 2	88	96.5
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	4.35E+08	; lg *N* = 8.64
	10^{-7}	46	41	$N_0 = N/10$; lg N_0=	7.64	
				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 = 7.64		Contact time	Result
RTU	<14	<14	1.40E+02	<2.15		>5.49	1 Minutes	**Pass**