



Test Report
Microbiome Balance Test

Company Name:	ISCA UK Ltd
Contact Name:	Dr Marina Raynbird
Contact Email:	mraynbird@iscauk.com
Purchase Order No:	TBC
Report Date:	23/10/2023
Melbec Ref Number:	60592
No. of Samples:	1
Name of Test Product:	MR494 Hand Cream
Batch Number:	MR494



Test Report
Microbiome Balance Test

Sample Details:

Manufacture / Supplier:.....	ISCA UK Ltd
Product storage conditions:.....	Ambient
Appearance of the product (as supplied):.....	White Cream
Appearance of the product (after dilution):.....	N/A
Appearance of product with interfering substance and test organism:	White Cream
Active substance and concentration:.....	Aevum Vita 621 (1.5%) and KS
Product dilution preparation:.....	(0.15%) Weight/Weight
Product dilutions/concentrations:.....	RTU
Diluent used to dilute product:.....	N/A
Incubation temperature:	35 °C to 38 °C

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

Date product received: 30/06/23 Test Date: /09/2023 and 25/09/2023

Experimental Conditions:

Interfering substance:	Clean (0.3g/l Bovine Serum)
Test temperature:	19 °C to 21 °C
Contact time:	4 hours
Test organisms:	<i>Staphylococcus aureus</i> ATCC 6538 <i>Staphylococcus epidermidis</i> ATCC 14990



Test Report
Microbiome Balance Test

Requirements of the test:

The balance of the common skin bacteria *S. epidermidis* and *S. aureus* should not be altered significantly. A co-culture of both bacteria is mixed with the product for a specified contact time and then the ratio of the two bacteria is compared with the untreated control. The balance should not be tipped significantly towards *S. aureus*.

Conclusion:

For the product under test, a slight shift in balance towards *S. aureus* was observed. However this shift was very slight (3.9%). The water control also shifted the balance slightly in favour of *S. aureus* (1.6%). Taken together these data suggest that the product does not significantly alter the balance of the two skin bacteria.

Report authorised by:

A handwritten signature in blue ink, appearing to read "Liam Stephens".

Name:	Liam Stephens
Position:	Technical Manager
Date:	23/10/2023



Test Report
Microbiome Balance Test

Test Results:

Neutralisation Method Used:

Dilution neutralisation by spread plate

Neutraliser used N1

Number of plates used

Test Report Microbiome Balance Test

Results

Product Replicate 1

	Pre count	%	Post count	%	% Change
<i>S. aureus</i>	1.90E+07	53.5	5.95E+05	59.9	6.4
<i>S. epidermidis</i>	1.65E+07	46.5	3.90E+06	40.1	-6.4

Product Replicate 2

	Pre count	%	Post count	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	3.10E+05	60.2	6.7
<i>S. epidermidis</i>	1.65E+06	46.5	2.05E+05	39.8	-6.7

Product Replicate 3

	Pre count	%	Post count	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	5.30E+05	58.2	4.7
<i>S. epidermidis</i>	1.65E+06	46.5	3.80E+05	41.8	-4.7

Product Replicate 4

	Pre count	%	Post count	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	1.13E+06	55.1	1.6
<i>S. epidermidis</i>	1.65E+06	46.5	9.20E+05	44.9	-1.6

Product Replicate 5

	Pre count	%	Post count	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	5.55E+06	57.8	5.2
<i>S. epidermidis</i>	1.65E+06	46.5	4.35E+06	42.2	-5.2

Test Report
Microbiome Balance Test

Product Mean

	<i>Pre count</i>	%	<i>Post count</i>	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	6.24E+05	57.2	3.7
<i>S. epidermidis</i>	1.65E+06	46.5	4.66E+05	42.8	-3.7

Water Control Replicate 1

	<i>Pre count</i>	%	<i>Post count</i>	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	1.28E+06	54.5	1.0
<i>S. epidermidis</i>	1.65E+06	46.5	1.07E+06	45.5	-1.0

Water Control Replicate 2

	<i>Pre count</i>	%	<i>Post count</i>	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	9.90E+05	56.4	2.9
<i>S. epidermidis</i>	1.65E+06	46.5	7.85E+05	43.6	-2.9

Water Control Mean

	<i>Pre count</i>	%	<i>Post count</i>	%	% Change
<i>S. aureus</i>	1.90E+06	53.5	1.14E+06	55.1	1.6
<i>S. epidermidis</i>	1.65E+06	46.5	9.28E+05	44.9	-1.6