

ISSUE 4b

Summary of Test Data

OxyBAC® FOAM Wash OxyBAC® Extra FOAM Wash & ANTIBAC FOAM Wash





About SC Johnson Professional®

SC Johnson Professional[®] provides expert skin care, cleaning and hygiene solutions for industrial, institutional and healthcare users. It incorporates the Deb range of specialist occupational skin care products along with well-known SC Johnson brands and innovative professional cleaning and hygiene products.



INDUSTRY



FOOD PROCESSING & FOOD SERVICE



COMMERCIAL



HEALTHCARE

Our purpose is to bring innovative, quality products and services to professional markets that rethink how people and organisations experience skin care, cleaning and hygiene, all under a single brand.



This brochure provides summary information on the microbiological tests conducted on OxyBAC® FOAM Wash, OxyBAC® Extra FOAM Wash and ANTIBAC FOAM Wash.

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OxyBAC® FOAM, OxyBAC® Extra FOAM & ANTIBAC FOAM Wash

powered by ACCELERATED HYDROGEN PEROXIDE

Broad spectrum antimicrobial rich-cream foam hand wash p[®] with Accelerated Hydrogen Peroxide® (AHP).

For use in environments where a higher level of hand hygiene is preferred

Contains Accelerated Hydrogen Peroxide®	Patended biocidal technology that provides broad spectrum antimicrobial activity killing up to 99.999% of many common bacteria and 99.99% of many common yeast and viruses when used as directed.
Excellent skin cleansing	Specifically formulated to provide an effective physical cleaning action for use in all food industry environments where greasy hands are encountered.
OxyBAC® Extra FOAM	
Skin Hypoallergenic	Dermatologist tested to verify and confirm this product has very low allergenic potential.
ANTIBAC FOAM Wash	
Mild formulation	Dermatologist tested to verify and confirm this product does not elicit dermal irritation.

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In vitro bactericidal EN 13727

Objective:

This European Standard is a quantitative suspension test and is used for the evaluation of the bactericidal activity of a product in the medical area.

General Study Information		
Protocol:	EN13727 (2012+A2:2015) (Phase 2, Step 1)	
Test House:	HygCen GmbH	
Test Product:	OxyBAC® FOAM ANTIBAC FOAM	
Report Ref:	PB2019-2361 SN 28244	PB2019-2361 SN 28244
Date of Report:	22/10/2019 22/10/2019	

Summary of Test Conditions		
Test Product:	OxyBAC [®] FOAM	
Product Test Concentrations:	50%, 80% and 97%	
Test Temperature:	20°C ± 1°C	
Organic Load:	Dirty Conditions (3g/L bovine albumin + 3ml/L sheep erythrocytes)	
	Staphylococcus aureus	ATCC 6538
	Enterococcus hirae	ATCC 10541
Test Strains:	Pseudomonas aeruginosa	ATCC 15442
	Escherichia coli K12	NCTC 10538
	Proteus mirabilis	ATCC 14153
Contact Time:	15, 30 and 60 seconds	

Test Results:

The test bacteria were sufficiently (RF >5 (99.999%)) inactivated by OxyBAC[®] and ANTIBAC FOAM under dirty conditions with the following concentration-time relationships:

Strain	Concentration	Contact time
Staphylococcus aureus	80%	15 seconds
Enterococcus hirae	50%	15 seconds
Pseudomonas aeruginosa	50%	15 seconds
Escherichia coli	50%	15 seconds
Proteus mirabilis	50%	15 seconds

Study Conclusion:

OxyBAC[®] and ANTIBAC FOAM have been shown to possess bactericidal activity.

In vitro bactericidal EN 13727

Objective:

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Study Conclusion:

 $\mathsf{OxyBAC}^\circledast$ and ANTIBAC FOAM have been shown to possess bactericidal activity.

General Study Information		
Protocol:	EN13727 (2012+A2:2015) (Phase 2, Step 1)	
Test House:	HygCen GmbH	
Test Product:	OxyBAC [®] FOAM	ANTIBAC FOAM
Report Ref:	PB 2019-2024 SN 28145	PB 2019-2024 SN 28145
Date of Report:	14/10/2019	14/10/2019
Summary of Test Conditions		
Test Product:	OxyBAC [®]	
Product Test Concentrations:	50%, 80% and 97%	
Test Temperature:	20°C ± 1°C	
Organic Load:	Organic Load: Dirty Conditions (3g/L bovine albumin + 3ml/L sheep erythrocytes)	
Test Strains:	Salmonella enterica Listeria monocytogenes	ATCC 13311 ATCC 15313
Contact Time:	30 seconds	

Test Results:

The test bacteria were sufficiently (RF>5 (99.999%)) inactivated by $OxyBAC^{\oplus}$ and ANTIBAC FOAM under dirty conditions with the following concentration-time relationships:

Strain	Concentration	Contact time
Salmonella enterica	50%	30 seconds
Listeria monocytogenes	50%	30 seconds

In vivo bactericidal EN 1499

Objective:

This European Standard is an in vivo test for assessing a hygienic handwash. The standard specifies a test method simulating practical conditions for establishing whether a product for hygienic handwash reduces the release of transient microbial flora on hands when used to wash the artificially contaminated hands of volunteers.

Test Method:

Hands of volunteers are artificially contaminated with test organisms. The number of test organisms released from their fingertips into sampling fluids is assessed before and after the hygienic handwash. The ratio of the two resulting values represents a measure for the antimicrobial activity of the product tested. To compensate for extraneous influences, it is compared with the reduction obtained by a reference handwash.

Requirement:

The mean reduction of the release of the test organism achieved by the hygienic handwash with the product under test shall be larger than that achieved by the reference handwash (unmedicated liquid soap).

Study Conclusion:

OxyBAC® and ANTIBAC FOAM showed a sufficient effect in the practise-like test according to EN1499:2013 with *Escherichia coli* with 1.5ml and a contact time of 30 seconds if applied to dry hands.

OxyBAC[®] and ANTIBAC FOAM have been shown to possess bactericidal activity.

In vitro Yeasticidal EN 13624

Objective:

This European Standard is a quantitative suspension test and is used for the evaluation of the bactericidal activity of a product in the medical area.

General Study Information EN1499 (2013) (Phase 2, Step 2) Protocol: iki GmbH Test House: **Test Strain:** Escherichia Coli K12 NCTC 10538 Application: Onto dry hands No. of Test Persons: 15 Ref. Product: Soft Soap (Sapo Kalinus, Pharm. Eur.) Ref. Product Volume: 5ml **Ref. Product Contact:** 60 seconds

Summary of Test Conditions		
Test Product:	OxyBAC [®] FOAM	ANTIBAC FOAM
Test Product Volume:	1.5ml	1.5ml
Test Product Contact Time:	30 seconds	30 seconds
Test Product Concentration:	100%	100%
Report Ref:	PL 19-62 191010	PL 19-62 191010
Date of Report:	10/10/2019	10/10/2019

Test Results:

1 dose of test product achieved a significantly higher log reduction in 30 seconds than was achieved for 5ml of reference product (potassium soap) in 60 seconds. The statistical comparison was based on the lower limit of rank sums in the Wilcoxon test (one-sided test p = 0.01)

General Study Information Protocol: EN 13624 (2013) (Phase 2, Step 1) Test House: iki GmbH iki GmbH Test Product: OxyBAC® FOAM ANTIBAC FOAM Report Ref: PL 19-62 191010 PL 19-62 191010 Date of Report: 10/10/2019 10/10/2019

Summary of Test Conditions	
Product Test Concentrations:	97%
Test Temperature:	20°C ± 1°C
Organic Load:	Dirty Conditions (3.0g/L bovine serum albumin + 3.0ml/L sheep erythrocytes)
Test Strains:	Candida albicans ATCC 10231
Contact Time:	15 seconds

Test Results:

The test yeast were sufficiently (RF> 4 (99.99%)) inactivated by OxyBAC[®] and ANTIBAC FOAM under dirty conditions with the following concentration-time relationships:

Study Conclusion:

OxyBAC[®] and ANTIBAC FOAM have been shown to possess yeasticidal efficacy.

Yeast	Concentration	Contact time
Candida albicans	97%	15 seconds

In vitro Virucidal EN 14476

Objective:

To evaluate the virus inactivating properties of the product agaisnt a range of common viruses using a quantitative suspension assay following the EN14476:2013 test method.

General Study Information			
Protocol:	EN 14476:2013+A2:2019		
Test House:	Dr Brill + Dr Steinmann	Dr Brill + Dr Steinmann	
Test Product:	OxyBAC [®] FOAM	ANTIBAC FOAM	
Report Ref:	L19/0816aMV.1	L19/0816aMV.1	
Date of Report:	07/11/2019	07/11/2019	

Summary of Test Conditions		
Product Test Concentrations:	2%, 10%, 20%, 50%	
Test Temperature:	20°C ± 1°C	
Organic Load:	Dirty conditions: 3.0g/L bovine serum albumin + 3.0ml/L erythrocytes	
Test Virus:	Modified Vaccinia Virus Ankara (MVA) (ATCC VR-1508)	
Contact Time:	30 seconds	

Test Results:

The test virus was sufficiently (RF > 4 (99.99%)) inactivated by OxyBAC $^{\circ}$ and ANTIBAC FOAM under dirty conditions with the following concentration-time relationships:

Virus	Concentration	Contact time
Modified Vaccinia Virus Ankara (MVA)	20%	30 seconds

OxyBAC[®] and ANTIBAC FOAM can be declared as having efficacy against all enveloped viruses, including:

•	H3N2
•	H1N1

- H5N1
 - HSV-1
- HIV-1
- HIV-1

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Taint Test - Triangle Test, BS EN ISO 4120:2007

Objective:

Study Conclusion:

To determine whether OxyBAC® FOAM has the potential to taint after direct contact with food.

After evaluation with Modified Vaccinia

Virus Ankara, OxyBAC® and ANTIBAC

efficacy against all enveloped viruses" according to EN14476:2013+A2:2019

FOAM can be declared as having "virucidal

General Study Information		
Protocol:	Triangle Test No. TES-S-004 (British Standard, Sensory Analysis- Methodology- Triangle Test, BS EN ISO 4120:2007)	
Test House:	Campden BRI (Chipping Campden) Ltd	
Test Product:	OxyBAC® FOAM	
Report Ref:	S/REP/148097/1	
Date of Report:	24/02/2019	

Description:

2 doses (2x 1.5ml) of OxyBAC® FOAM were dispensed onto glass tiles and spread over the surface of each. The product was then rinsed off the tiles with distilled water. When dry, the tiles were stored in direct contact with chocolate buttons for 24 hours inside a sealed glass container. Untreated (control) chocolate buttons were set up using the same method as above, but using distilled water in place of the test product.

The chocolate was evaluated by forty-two trained sensory assessors using the Triangle Test Method for similarity. This test requires that assessors are presented with sets of three coded chocolate samples, two of which are the same and one of which is different.

After tasting, each assessor is asked to select the different sample. The test states that if no more that 16 of the 42 assessors identify the chocolate sample that is different, then the product would not be considered to have potential to taint.

Summary of Test Results:

Fewer than 16 assessors correctly identified the different sample. Therefore, OxyBAC® FOAM is not considered to have potential to taint.

SC Johnson Professional Denby Hall Way Denby Derbyshire DE5 8JZ UK Tel: +44 (0) 1773 855100 www.scjp.com At SC Johnson Professional $^{\otimes}$ we provide expert skin care, cleaning & hygiene solutions for industrial, institutional and healthcare users.

Our product range incorporates the Deb range of specialist occupational skin care products along with the well-known SC Johnson brands enhanced for professional use and innovative specialist professional cleaning & hygiene products.

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RETHINKING THE PROFESSIONAL EXPERIENCE