SCJohnson PROFESSIONAL
A Family Company®

InstantFOAM™ Complete

Summary of Microbiological Test Data

ISSUE 5

deb SKIN CARE

About SC Johnson Professional

SC Johnson Professional™ provides expert skin care, cleaning & 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 & hygiene products.

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.

Industry

Food Processing & Food Service

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Contents

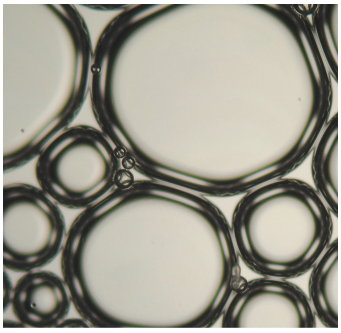
This brochure provides summary information on the microbiological test conducted on InstantFOAM™ Complete

InstantFOAM™ Complete

Alcohol-Based Foam Hand Disinfectant

Bactericidal I Virucidal I Yeasticidal I Mycobactericidal

InstantFOAM™ Complete has been specifically developed to provide a complete solution for hand disinfectant in one product, suitable for all environments where high levels of hand hygiene are desired. The product is a highly effective broad spectrum alcohol-based liquid sanitiser dispensed as a foam. It is the world's first alcohol foam hand sanitiser proven to be both bactericidal and fully virucidal.



100 x magnification of InstantFOAM™

1 World's 1st Virucidal Foam Hand Disinfectant

In vitro bactericidal **EN 1276**

Objective:

This European Standard is a quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.

General Study Information	
Protocol:	EN1276:2009
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	13th March 2015
Report Ref:	L15/0070.2
Test Product:	InstantFOAM™ Complete
Study Dates:	11/03/2015 - 13/03/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 02/02/15
Product Test Concentrations:	80%, 50% and 10% (v/v end concentrations)
Diluent:	Distilled water (DW, pH 7.0)
Test Temperature:	20°C ± 1°C
Incubation Temperature:	36°C ± 1°C
Neutraliser:	30 g/L polysorbate 80, 30g/ L saponine, 3g/L lecithin, 1g/L histidine, 5g/L sodium thiosulphate (TLSH-Nt)
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine albumine
Test Strains:	*Staphylococcus aureus* ATCC 6538 *Escherichia coli* ATCC 10536 *Enterococcus hirae* ATCC 10541 *Pseudomonas aeruginosa* ATCC 15442
Contact Time:	30 seconds

Test Results:

All test bacteria were sufficiently (RF >5) inactivated with the following concentration-time relationship: clean conditions, 50% (v/v), 30 seconds.

Study Conclusion:

According to DIN EN1276:2009 (phase 2, step 1), InstantFOAM™ Complete possesses bactericidal activity >5 log 99.999% in 30 seconds at 20˚C for the reference strains Staphylococcus aureus, Enterococcus hirae, Escherichia coli & Pseudomonas aeruginosa when diluted at 50% (v/v).

In vitro bactericidal **EN 13727**

Objective:

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

General Study Information	
Protocol:	EN13727:2013
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	11th March 2015
Report Ref:	L15/0070.3
Test Product:	InstantFOAM™ Complete
Study Dates:	20/02/2015 - 23/02/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 02/02/15
Product Test Concentrations:	80%, 50% and 10% (v/v end concentrations)
Diluent:	Distilled water (DW, pH 7.0)
Test Temperature:	20°C ± 1°C
Incubation Temperature:	36°C ± 1°C
Neutraliser:	30 g/L polysorbate 80, 30g/ L saponine, 3g/L lecithin, 1g/L histidine, 5g/L sodium thiosulphate (TLSH-Nt)
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine albumine
Test Strains:	*Staphylococcus aureus* ATCC 6538 *Escherichia coli* ATCC 10536 *Enterococcus hirae* ATCC 10541 *Pseudomonas aeruginosa* ATCC 15442
Contact Time:	30 seconds

Test Results:

All test bacteria were sufficiently (Log RF >5) inactivated with the following concentration-time relationship: clean conditions, 80% (v/v), 30 seconds.

Study Conclusion:

According to DIN EN 13727:2013 (phase 2, step 1), InstantFOAM™ Complete possesses bactericidal activity >5 log (99.999%) in 30 seconds at 20˚C for the reference strains Staphylococcus aureus, Enterococcus hirae, Escherichia coli & Pseudomonas aeruginosa when diluted at 80% (v/v).

In vivo bactericidal **EN 1500**

Objective:

This European Standard specifies an in vivo test for assessing hygienic handrubs. The method of test simulates practical conditions for establishing whether a product for hygienic handrub reduces the release of transient flora when rubbed onto the artificially contaminated hands of volunteers. To meet the standard, test products must perform no worse than the reference product propan-2-ol.

General Study Information	
Protocol:	EN1500:2013
Test House:	HygCen GmbH Schwerin, Germany
Date of Report:	16th December 2014
Report Ref:	SN 17931
Test Product:	InstantFOAM™ Complete
Study Dates:	11/12/2014 - 13/12/2014

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 02/02/15
Product Test Concentrations:	100% (Neat)
Test Strain:	*Escherichia coli* NCTC 10538
Exposure Time:	30 seconds
Neutraliser:	3,0 % Tween 80 + 3,0 % Saponine + 0,1 % Histidin + 0,1 % Cystein (TSHC) / 3.0 % polysorbate 80 + 3.0 % saponin + 0.1 % histidine + 0.1 % cysteine (TSHC)
Reference Procedure:	2 x 3ml 60% (v/v) propan-2-ol, rubbed onto the hands during 60 seconds
Test Procedure:	Rub the hands with 3 ml of product AA72 for 30 seconds.

Test Results:

From the critical values for Wilcoxon`s matched-pairs signed-ranks test the entry for n=20 and a one-sided 0.025 level of significance the critical value of 52 is found - hence c=52+1=53. The 53rd value is 0.39. Hence the Hodges-Lehmann upper one-sided 97.5% confidence limit for the difference in log reductions between reference and AA72 is 0.39, which is less than the agreed inferiority margin of 0.6. Therefore it can be concluded that AA72 is non- inferior to the reference.

Study Conclusion:

The test product InstantFOAM™ Complete (AA72) is suitable for the hygienic hand rub according to DIN EN1500:2013 (phase 2, step 2) with the following application - Rub the hands with 3 ml of product for 30 seconds.

In vivo bactericidal (Surgical Rub) **EN 12791**

Objective:

The European Standard for products to be used for surgical hand disinfection (surgical rubs) is an in vivo test that assesses the efficacy of the test product in reducing the transient flora on volunteers' hands both immediately and after a 3 hour period. To meet the standard, test products must perform no worse than the reference product n-propanol.

General Study Information	
Protocol:	EN12971:2005
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	11th March 2015
Report Ref:	L15/0070.8
Test Product:	InstantFOAM™ Complete
Study Dates:	23/02/2015 - 05/03/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 05/02/15
Product Test Concentrations:	100% (Neat)
Test Strain:	N/A
Test Temperature:	N/A
Reference Procedure:	3ml aliquots of 60% n-Propanol rubbed on the hands, repeated sufficiently to maintain wet hands for 3 minutes
Test Procedure:	3ml aliquots of the test product rubbed on the hands, repeated sufficiently to maintain wet hands for 3 minutes

Test Results:

According to Wilcoxon test the differences between reductions of standard product and InstantFOAM™ Complete for immediate and three hour effect was not significant. Therefore the preparation InstantFOAM™ Complete did show sufficient activity for surgical hand disinfection in the practice-like test with an application rate of 3 ml portions (hands kept wet) and an exposure time of 3 minutes.

Study Conclusion:

InstantFOAM™ Complete proved to be suitable for surgical hand rub in a practice-like trial with 19 test persons. The requirements of DIN EN 12791:2005 (phase 2, step 2) were fulfilled with a use concentration of 100% kept wet for a contact time of 3 minutes.

In vitro mycobactericidal **EN 14348**

Objective:

Quantitative suspension test for the evaluation of Mycobactericidal activity of chemical disinfectants used in the medical area including instrument disinfectants.

General Study Information	
Protocol:	EN14348:2005
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	17th March 2015
Report Ref:	L15/0070.1
Test Product:	InstantFOAM™ Complete
Study Dates:	17/02/2015 - 10/03/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 02/02/15
Product Test Concentrations:	80%, 50% and 10% (v/v end concentrations)
Diluent:	Distilled water (DW, pH 7.0)
Test Temperature:	20°C ± 1°C
Incubation Temperature:	30°C ± 1°C
Neutraliser:	30 g/L polysorbate 80, 30g/ L saponine, 3g/L lecithin, 1g/L histidine, 5g/L sodium thiosulphate (TLSH-Nt)
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine albumine
Test Strains:	*Mycobacterium terrae* ATCC 15755, Mycobacterium avium ATCC 15769
Contact Time:	30 seconds

Test Results:

Mycobacterium terrae and Mycobacterium avium were sufficiently (log RF >4) inactivated with the following concentration-time relationship: clean conditions, 80% (v/v), 30 seconds

Study Conclusion:

InstantFOAM™ Complete (AA72) showed tuberculocidal and mycobactercidal activity under clean conditions and complies with the requirements of DIN EN 14348:2005 (phase 2, step 1) with the following concentration-time relationship: 80% (v/v), 30 seconds.

In vitro Yeasticidal & Fungicidal **EN 1650**

Objective:

Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants in food, industrial, domestic and institutional areas.

General Study Information	
Protocol:	EN1650:2013
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	13th March 2015
Report Ref:	L15/0070.5
Test Product:	InstantFOAM™ Complete
Study Dates:	11/03/2015 - 13/03/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 02/02/15
Product Test Concentrations:	80%, 50% and 10% (v/v end concentrations)
Diluent:	Distilled water (DW, pH 7.0)
Test Temperature:	20°C ± 1°C
Incubation Temperature:	36°C ± 1°C
Neutraliser:	30 g/L polysorbate 80, 30g/ L saponine, 3g/L lecithin, 1g/L histidine, 5g/L sodium thiosulphate (TLSH-Nt)
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine albumine
Test Strains:	*Candida albicans* ATCC 10231 *Aspergillus brasiliensis* ATCC 16404
Contact Time:	30 seconds and 5 minutes

Test Results:

The test organisms were sufficiently (log RF >4) inactivated with the following concentration-time relationship:

- Candida albicans: clean conditions, 50% (v/v), 30 seconds.
- Aspergillus brasiliensis: clean conditions 80% (v/v), 5 minutes.

Study Conclusion:

InstantFOAM™ Complete (AA72) showed fungicidal and yeasticidal activity under clean conditions and complies with the requirements of DIN EN 1650:2013 (phase 2, step 1) with the following concentration-time relationship:

- Yeasticidal: clean conditions, 50% (v/v), 30 seconds
- Fungicidal: clean conditions, 80% (v/v), 5 minutes

In vitro Yeasticidal & Fungicidal **EN 13624**

Objective:

Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants in the medical area.

General Study Information	
Protocol:	EN13624:2013
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	11th March 2015
Report Ref:	L15/0070.4
Test Product:	InstantFOAM™ Complete
Study Dates:	20/02/2015 - 23/02/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	DOM 02/02/15
Product Test Concentrations:	80%, 50% and 10% (v/v end concentrations)
Diluent:	Distilled water (DW, pH 7.0)
Test Temperature:	20°C ± 1°C
Incubation Temperature:	30°C ± 1°C
Neutraliser:	30 g/L polysorbate 80, 30g/ L saponine, 3g/L lecithin, 1g/L histidine, 5g/L sodium thiosulphate (TLSH-Nt)
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine albumine
Test Strains:	*Candida albicans* ATCC 10231 *Aspergillus brasiliensis* ATCC 16404
Contact Time:	30 seconds and 5 minutes

Test Results:

The test organisms were sufficiently (log RF >4) inactivated with the following concentration-time relationship:

- Candida albicans: clean conditions, 50% (v/v), 30 seconds and 80% (v/v), 5 minutes
- Aspergillus brasiliensis: clean conditions 80% (v/v), 5 minutes.

Study Conclusion:

InstantFOAM™ Complete (AA72) showed fungicidal and yeasticidal activity under clean conditions and complies with the requirements of DIN EN13624:2013 (phase 2, step 1) with the following concentration-time relationship:

- Yeasticidal: clean conditions, 50% (v/v), 30 seconds and 80% (v/v), 5 minutess
- Fungicidal: clean conditions, 80% (v/v), 5 minutes

In vitro Virucidal **EN 14476 – poliovirus type 1**

Objective:

This standard is a quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the medical area. The standard applies to areas and situations where disinfection is medically intended. Such indications occur in patient care; for example in hospitals, community medical facilities, dental institutions, clinics in schools, kindergartens, nursing homes and may occur in the workplace or the home.

General Study Information	
Protocol:	EN14476:2013
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	11th July 2016
Report Ref:	D1620254Po1
Test Product:	InstantFOAM™ Complete
Study Dates:	13/04/16 - 11/07/16

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	MS 5/175/2
Product Test Concentrations:	Undiluted (97% and 80%) and as 50% and 10% (demonstration of non-active range) v/v solutions
Diluent:	Water
Test Temperature:	20°C ± 1°C
Appearance of product dilutions:	No precipitation
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine serum albumin
Procedure to stop action of disinfectant:	Immediate dilution
Stability of product in the mix with virus and interfering substance:	97% and 80% - minor clouding, minor precipitation
Virus Strains:	Poliovirus type 1 strain LSc-2ab (Chiron-Behring)
Contact Time:	30, 40 & 50 seconds and 30 minutes

Test Results:

The undiluted product (97% assay) was able to inactivate poliovirus type 1 after 40 seconds in the quantitative suspension test. The mean reduction factor was >4.25 ± 0.23. The mean value corresponds to an inactivation of ≥ 99.99%.

Study Conclusion:

The hand disinfectant InstantFOAM™ Complete tested undiluted demonstrated effectiveness against poliovirus type 1 after an exposure time of 40 seconds under clean conditions. Therefore the hand disinfectant InstantFOAM™ Complete can be declared as active against poliovirus type 1 as follows: undiluted, 40 seconds.

In vitro Virucidal **EN 14476 – adenovirus type 5**

Objective:

This standard is a quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the medical area. The standard applies to areas and situations where disinfection is medically intended. Such indications occur in patient care; for example in hospitals, community medical facilities, dental institutions, clinics in schools, kindergartens, nursing homes and may occur in the workplace or the home.

General Study Information	
Protocol:	EN14476:2013
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	7th November 2014
Report Ref:	D14ML1799A
Test Product:	InstantFOAM™ Complete
Study Dates:	02/10/2014 - 25/11/2014

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	01102014SL
Product Test Concentrations:	Undiluted (80%) and as 50% and 10% (demonstration of non-active range) v/v solutions
Diluent:	Water
Test Temperature:	20°C ± 1°C
Appearance of product dilutions:	No precipitation
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine serum albumin
Procedure to stop action of disinfectant:	Immediate dilution
Stability of product in the mix with virus and interfering substance:	80% - no precipitation, no flocculation.
Virus Strains:	adenovirus type 5 strain adenoid 75 (ATCC VR-5)
Contact Time:	30 seconds, 60 seconds and 30 minutes

Test Results:

The undiluted product (80% assay) was able to inactivate adenovirus type 5 after 30 seconds in the quantitative suspension test. The mean reduction factor was 4.75 ± 0.31. The mean value corresponds to an inactivation of ≥ 99.99%.

Study Conclusion:

The hand disinfectant InstantFOAM™ Complete tested undiluted demonstrated effectiveness against adenovirus type 5 after an exposure time of 30 seconds under clean conditions. Therefore the hand disinfectant InstantFOAM™ Complete can be declared as active against adenovirus type 5 as follows: undiluted, 30 seconds.

In vitro Virucidal **EN 14476 – murine norovirus**

Objective:

This standard is a quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the medical area. The standard applies to areas and situations where disinfection is medically intended. Such indications occur in patient care; for example in hospitals, community medical facilities, dental institutions, clinics in schools, kindergartens, nursing homes and may occur in the workplace or the home.

General Study Information	
Protocol:	EN14476:2013
Test House:	Dr Brill + Dr Steinmann Labs GmbH
Date of Report:	7th November 2014
Report Ref:	D14ML1799M
Test Product:	InstantFOAM™ Complete
Study Dates:	02/10/2014 - 12/11/2014

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	01102014SL
Product Test Concentrations:	Undiluted (80%) and as 50% and 10% (demonstration of non-active range) v/v solutions
Diluent:	Water
Test Temperature:	20°C ± 1°C
Appearance of product dilutions:	No precipitation
Conditions:	Clean conditions
Interfering substance:	0.3 g/L bovine serum albumin
Procedure to stop action of disinfectant:	Immediate dilution
Stability of product in the mix with virus and interfering substance:	80% - no precipitation, no flocculation.
Virus Strains:	murine norovirus (Berlin 06/06/DE Isolate S99)
Contact Time:	30 seconds, 60 seconds and 30 minute

Test Results:

The undiluted product (80%) was able to inactivate murine norovirus after 30 seconds in the quantitative suspension test. The mean reduction factor was 5.13 ± 0.37. The mean value corresponds to an inactivation of ≥ 99.999%.

Study Conclusion:

The hand disinfectant InstantFOAM™ Complete tested undiluted demonstrated effectiveness against murine norovirus after an exposure time of 30 seconds under clean conditions. Therefore the hand disinfectant InstantFOAM™ Complete can be declared as active against murine norovirus as follows: undiluted, 30 seconds.

In vivo Virucidal **ASTM E2011-13 – murine norovirus and rhinovirus Type 14**

Objective:

This test method is designed to evaluate the virus-eliminating activity of hygienic handwash and handrub agents from experimentally-contaminated hands. This test method incorporates whole-hand exposure and reflects actual use conditions such as friction during hand decontamination, and also enables alternative product forms such as alcohol- or non-alcohol-based liquids, gels, and foams to be tested according to label directions.

General Study Information	
Protocol:	ASTM E2011-13
Test House:	Bioscience Laboratories Inc
Date of Report:	6th October 2015
Report Ref:	150504-111
Test Product:	InstantFOAM™ Complete
Study Dates:	06/08/2015 - 31/08/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	MS5/71/1
Product Test Concentrations:	100% (neat)
Test Strain:	murine norovirus strain S99 (FLI Virusbank #RVB-651) Rhinovirus Type 14 (ATCC #VR-284)
Exposure Time:	30 seconds
Test Procedure:	Rub the hands with 3 ml of product AA72 for 30 seconds.
Control Solution:	Earle's Balanced Salt Solution (EBSS)

Study Conclusion:

murine norovirus: the test product, InstantFOAM™ Complete produced a 4.25 log10 mean reduction from baseline (the mean value corresponds to an inactivation of ≥ 99.99%) and a 3.50 log10 mean reduction from the control EBSS solution (the mean value corresponds to an inactivation of 99.97%) when challenged with murine norovirus strain S99 (FLI Virusbank #RVB-651).

rhinovirus: the test product, InstantFOAM™ Complete produced a 3.30 log10 mean reduction from baseline (the mean value corresponds to an inactivation of 99.95%) and a 2.55 log10 mean reduction from the control EBSS solution (the mean value corresponds to an inactivation of 99.72%) when challenged with Rhinovirus Type 14 (ATCC #VR-284).

In vivo Virucidal **ASTM E1838-10 - Pilot Study of murine norovirus and Rhinovirus Type 14**

Objective:

This test procedure is designed to test the ability of hygienic handwash and handrub agents to reduce levels of selected infectious viruses from experimentally contaminated fingerpads of adults. Since the two thumbpads and all eight fingerpads can be used in any given test, it allows for the incorporation of input virus control (two), virus remaining viable after the inoculum has been allowed to dry (two), virus eliminated after treatment with a control or reference solution (two), and up to four replicates to assess the virus-eliminating efficiency of the substance under test.

General Study Information	
Protocol:	ASTM E1838-10
Test House:	Bioscience Laboratories Inc
Date of Report:	1st October 2015
Report Ref:	150504-111
Test Product:	InstantFOAM™ Complete
Study Dates:	07/09/2015 - 01/10/2015

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	MS5/71/1
Product Test Concentrations:	100% (neat)
Test Strain:	murine norovirus strain S99 (FLI Virusbank #RVB-651) Rhinovirus Type 14 (ATCC #VR-284)
Exposure Time:	30 seconds
Test Procedure:	Vial of test product inverted and content allowed to remain in contact with the fingerpad for 30 seconds

Study Conclusion:

murine norovirus: the test product, InstantFOAM™ Complete produced a 3.79 log10 mean reduction when challenged with murine norovirus strain S99 (FLI Virusbank #RVB-651).

rhinovirus: the test product, InstantFOAM™ Complete produced a 3.54 log10 mean reduction when challenged with Rhinovirus Type 14 (ATCC #VR-284).

In vitro – Bactericidal, Yeasticidal and Fungicidal **ASTM E2783-11 – Timed exposure kill evaluation of 58 microorganism species**

Objective:

This test method measures the changes of a population of aerobic and anaerobic microorganisms within a specific sampling time when tested against antimicrobial test materials in vitro. The organisms used are standardized as to growth requirements and inoculum preparation and must grow under the conditions of the test. The primary purpose of this test method is to provide a set of standardized conditions and test organisms to facilitate comparative assessments of antimicrobial materials miscible in aqueous systems

General Study Information	
Protocol:	ASTM E2783-11
Test House:	Bioscience Laboratories Inc
Date of Report:	11th November 2015
Report Ref:	150826-201
Test Product:	InstantFOAM™ Complete
Study Dates:	09/10/2015 - 10/11/2015

Results and Conclusions:

InstantFOAM™ Complete reduced the microbial population of 55 species by greater than 5 log_{10} reduction following 15 second exposure. The microbial populations of Clostridium difficile (ATCC #9689, vegetative cells) and Streptococcus pyogenes (ATCC #19615) were reduced by greater than 4 log10 reduction following 15 second exposure to Instant FOAM Complete. The microbial population of Epidermophyton floccosum (ATCC #52063) was reduced by 3.9 log_{10} reduction following 15 second exposure.

Summary of Test Conditions

The test product was brought into contact with a known population of micro-organisms for 15 seconds. The test article was neutralised at the sampling time (15 seconds) and the surviving micro-organisms were enumerated. The percent reduction and log_{10} reduction from an initial microbial population was calculated.

Test Product:	InstantFOAM™ Complete (AA72)
Batch Number:	2508
Product Test Concentrations:	100% (neat)
Exposure Time:	15 seconds
Test Organisms:	*Acinetobacter baumannii (ATCC #19606), Aspergillus brasiliensis (ATCC #6275), Aspergillus flavus (ATCC #9643, Bacillus megaterium; vegetative cells (ATCC #14581), Bacteroides fragilis (ATCC #29762, Burkholderia cepacia (ATCC #25416), Campylobacter jejuni (ATCC #29428), Candida albicans (ATCC #10231), Candida tropicalis (ATCC #13803), Citrobacter freundii (ATCC #8090) Clostridium difficile; vegetative cells (ATCC #9689), Clostridium perfringens; vegetative cells (ATCC #13124), Corynebacterium diphtheria (ATCC #11913), Enterobacter aerogenes (ATCC #13048), Enterococcus faecalis (ATCC #29212), Enterococcus faecium MDR, VRE (ATCC #51559), Enterococcus hirae (ATCC #10541), Escherichia coli (ATCC #11229), Escherichia coli (ATCC #25922), Escherichia coliserotype O157:H7 (ATCC #43888), Escherichia coliserotype O157:H7 (ATCC #35150), Epidermophyton floccosum (ATCC #52063), Haemophilus influenza MDR (ATCC #33930), Klebsiella pneumoniae ozaenae (ATCC #11296), Klebsiella pneumoniae (ATCC #13883), Lactobacillus plantarum (ATCC #14917), Listeria monocytogenes (ATCC #7644), Listeria monocytogenes (ATCC #15313), Micrococcus yunnanensis (ATCC #7468), Penicillium citrinum (ATCC #9849), Proteus hauseri (ATCC #13315), Proteus mirabilis (ATCC #7002), Pseudomonas aeruginosa (ATCC #27853), Salmonella entericaserovar Choleraesuis (ATCC #10708), Salmonella entericaserovar Enteritidis (ATCC #13076), Salmonella entericaserovar Typhimurium (ATCC #14028), Serratia marcescens (ATCC #14756), Shigella dysenteriae (ATCC #13313), Shigella sonnei (ATCC #11060), Staphylococcus aureus (ATCC #6538), Staphylococcus aureus (ATCC #29213), Staphylococcus aureus MRSA (ATCC #33591), Staphylococcus aureus MRSA (BSLI #060613MRSA1), Staphylococcus aureus MRSA, NRS382, USA100 (BSLI #092711SaNRS382), Staphylococcus aureus MRSA, NRS383, USA200 (BSLI #092711SaNRS383), Staphylococcus aureus MRSA, NRS384, USA300 (BSLI #092711SaNRS384), Staphylococcus aureus MRSA, NRS123, USA400 (BSLI #092711SaNRS123), Staphylococcus aureus MRSA, NRS385, USA500 (BSLI #090215SaNRS385), Staphylococcus aureus MRSA, NRS483, USA1000 (BSLI #090215SaNRS483), Staphylococcus aureus MRSA, NRS484, USA1100 (BSLI #090215SaNRS484), Staphylococcus epidermidis (ATCC #12228), Staphylococcus haemolyticus (ATCC #43252), Staphylococcus hominis (ATCC #27845), Staphylococcus saprophyticus (ATCC #49453), Streptococcus pneumoniae (ATCC #33400), Streptococcus pyogenes (ATCC #19615), Trichophyton mentagrophytes (ATCC #9533), Vibrio cholera (ATCC #11558)*

In vitro Virucidal **EN 14476 – SARS CoV-2**

Objective:

This standard is a quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the medical area. The standard applies to areas and situations where disinfection is medically intended. Such indications occur in patient care; for example in hospitals, community medical facilities, dental institutions, clinics in schools, kindergartens, nursing homes and may occur in the workplace or the home.

General Study Information	
Protocol:	EN14476:2013+A2:2019
Test House:	Microbac Laboratories Inc
Date of Report:	10th July 2020
Report Ref:	448-109
Test Product:	InstantFOAM™ Complete Hand Sanitiser
Study Dates:	09/06/2020 - 08/07/2020

Summary of Test Conditions	
Test Product:	InstantFOAM™ Complete Hand Sanitiser
Batch Number:	4775
Product Test Concentrations:	10% (1 part concentrate + 9 parts diluent) 50% (1 part concentration + 1 part diluent) Neat (i.e. ready-to-use)
Diluent:	EN Hard Water
Test Temperature:	20°C ± 1°C
Appearance of product dilutions:	No precipitation
Conditions:	Clean conditions
Interfering substance:	0.3 g/100 mL Bovine Serum Albumin (BSA) (final concentration in reaction mixture 0.3 g/L BSA)
Procedure to stop action of disinfectant:	Immediate dilution
Virus Strains:	Severe Acute Respiratory Syndrome-related Coronavirus 2 (SARS-CoV-2) (COVID-19 Virus), strain: USA-WA1/2020, Source: BEI Resources, NR-52281
Contact Time:	30 seconds

Study Conclusion:

According to the EN14476:2013+A2:2019 guideline, the test product passes the Virucidal Efficacy Suspension Test if there is at least a 4.0-log reduction in viral titre beyond the cytotoxicity level.

When tested as described, InstantFOAM™ Complete Hand Sanitiser, at 10% concentration, did not meet the European Standard EN14476:2013+A2:2019 guideline when Severe Acute Respiratory Syndrome-related Coronavirus was exposed to the test product for 30 seconds at 20°C.

When tested as described, InstantFOAM™ Complete Hand Sanitiser, at 50% and Neat concentrations, met the European Standard EN14476:2013+A2:2019 guideline, when Severe Acute Respiratory Syndrome-related Coronavirus was exposed to the test product for 30 seconds at 20°C, with a Log10 reduction of ≥ 4.36 ± 0.12.

All controls met the criteria for a valid test. These conclusions are based on observed data.

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