英國原料高效安全消毒品牌

STERiMAC 濠潔
Advanced Barrier Control
Incorporating STERiZAR®

濠潔抗菌消毒產品系列

風霖環保科技有限公司
WIND FOREST ENVIRONMENT PROT. TECH. COMP. LTD.

STERiMAC 濠潔
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消毒新概念

消毒:

一般是指當刻殺滅細菌/病毒的功效，但若果下一秒我們再接觸到其它表面附帶有細菌/病毒的物件上(甚至空氣中)，病毒/細菌在已消毒過的地方也會立即開始滋生。

抗菌:

表示有持續的消毒效果，消毒配方於手部或物件表面繼續發揮殺滅及抑制病菌滋生的功效，一般傳統酒精類消毒產品無法做到的。

STERiMAC 的Advanced Barrier Control抗菌技術，其6小時皮膚及30天物件表面持續抗菌效果，已經通過歐盟EN12791 (6小時) 及 EN13697 (30天)認証證實其功效。

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– 英國血統 –
澳門自家生產品牌

本品牌採用英國 STERiZAR® 無酒精消毒配方
(已獲多項英國&歐盟BS EN認證)

STERiZAR® - Advanced Barrier Control 技術

全系列產品均有以下功能

- 高達99.999%殺菌率(EN1276, EN1650 etc)
- 6小時皮膚抗菌(EN12791)
- 30天物件表面抗菌(EN13697)
- 經EN14476認證對新冠病毒等多種病毒有效
- 通過無過敏測試，適合敏感性肌膚
- 無酒精、不易燃、無揮發物 (NO VOC)
- 獲英國清真協會推薦使用
- 99%成份可降解於自然環境

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品牌特點

- 持久抗菌保護，阻止病毒/細菌滋生

- 澳門品牌，澳門制造

- 以親民價錢帶給澳門及大灣區居民

  一個全面高效消毒抗菌的環境

- 環保配方(>99%可自然降解)

品牌特點

產品內容:

- 多元化產品

· 多功能抗菌消毒噴霧

· 個人護手泡沫/啫喱

· 一次性濕巾

· 商用消毒方案

(自動感應消毒設備，霧化消毒，及為企業

度身設計OEM贈品等等)

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產品目錄

抗菌個人護手泡沫

- 泡沫質感如絲般柔滑
- 使用後清爽不油膩
- 親和肌膚
- 搓手30秒後, 高達99.999%滅菌率 (EN1276, EN1650 & EN1656 etc)
- 長達6小時皮膚抗菌效果(EN12791)
- 以二級反滲透純水(*食用級數)制造

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產品目錄

多用途表面抗菌消毒噴霧

擁有「消毒、抗菌、清潔」三種成效

- 使用30秒後, 高達99.999%滅菌率 (EN1276,EN1650 & EN1656 etc)
- 最長30天抗菌效果(EN13697)
- 通過不鏽鋼無鏽及副作用測試
- 適用於多種物件表面
- 不致敏 / 可用於皮膚 / 消毒及6小時抗菌效果
- 以二級反滲透純水(*食用級數)制造
- 多種容量包裝 (10/20/50/500ml)，

  方便各類場所使用

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濠洁霸 Advanced Barrier Control Incorporating STERiZAR

WIND FOREST ECOTECH

產品目錄

抗菌個人護手啫喱

- 如 **LOTION** 般的持久潤滑質感
- 經濟環保, 只需酒精搓手啫喱的1/3份量
- 親和肌膚
- 搓手30秒後, 高達**99.999%**滅菌率**(EN1276, EN1650 & EN1656 etc)**
- 長達6小時皮膚抗菌效果(EN12791)

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產品目錄

一次性濕巾

- 擦拭30秒後, 高達99.99%滅菌率 (EN1276, EN1650 & EN1656 etc)
- 適用於多種表面(通過不鏽鋼無副作用測試)
- 皮膚6小時抗菌效果 (EN13697/EN12791)
- 多種包裝(單片/25片/80片/200片), 方便各類型客户及場所使用

單片裝

25片裝

80片裝

25片裝

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產品目錄

商業客戶消毒方案

- 本地企業聯乘合作計劃
- 承包企業消毒優惠方案
- 自動感應式搓手泡沫機
- 霧化深層消毒方案
- 度身訂造, 設計, 包裝或代工合作企業消毒產品

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九大特點

- 品牌配方功效通過22項英國/歐盟(BS/EN)測試認證
- 獲英國穆斯林協會(HMC)推薦
- 殺菌率高達 99.999%
- 有效對抗新型冠狀病毒 COVID-19(EN14476)
- 有效殺滅多種抗藥性惡菌
- 每次使用後型成抗菌保護，
  可保持長達6小時(EN12791)/ 30天(EN13697)
- 不含致敏源，親和皮膚
- 安全無酒精，適合各年齡段人士使用

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STERiMAC
Advanced Barrier Control
Incorporating STERiZAR

AUTOMATIC DISPENSER

Smart, small and safe disinfection

Before use

After use

Spray soft
99.999% kill viruses and bacteria
Effective for at least 6 hours after 30s of use

Infrared sensing

Dual power supply

Large capacity

Capacity is visible

Two ways of liquid outlet

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STERiMAC
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Countertop Sterilizer

Small body but large capacity

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Advertising Bracket

Disinfection platform that can be used for commercial advertising.

Size can be customized

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STERiMAC
Advanced Barrier Control
Incorporating STERiZAR®

Atomized Sanitization Machine
全方位霧化消毒噴槍

Simple operation | Large area spray | Portable
操作簡單 | 大面積噴灑 | 使用輕便

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Features 產品特點

Wide range
1m-2.5m Range

範圍廣泛
1~2.5米噴灑範圍

400ml
High capacity

大容量液倉
通用型充电口

One button
Simple operation

一鍵操控
方便簡單

2600mAh
Type-c
Charging port

2600毫安
Type-c
通用型充电口

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Use Place 適用場所

Disinfection、Eliminate mites
消毒、殺菌、除蟎

Office 辦公室

Car 車內

Calssroom 課室

Room 居室

Toilet 衛生間

Canteen 餐廳

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線上商城

推出各種商品

消毒抗菌潔手啫喱 SteriMac Hand Gel Sanitizer
MOP 28.00

加入購物車

消毒抗菌潔手泡沫 SteriMac Hand Foam Sanitizer
MOP 38.00

加入購物車

多用途表面抗菌消毒清潔噴霧 SteriMac Multi-Purpose Sanitizer
MOP 78.00

加入購物車

消毒抗菌潔手泡沫 1L (補充裝) SteriMac Hand Foam Sanitizer 1L (Refill)
MOP 128.00

加入購物車

多用途表面抗菌消毒清潔噴霧 1L (補充裝) SteriMac Multi-Purpose Sanitizer 1L (Refill)
MOP 128.00

加入購物車

霧化抗菌消毒劑 1L (補充裝) SteriMac Fogging Sanitizer 1L (Refill)
MOP 140.00

加入購物車

霧化抗菌消毒噴霧機套裝配1L霧化消毒劑 Fogging Solution with SteriMac Fogging Sanitizer 1L
MOP 1,280.00

加入購物車

霧化抗菌消毒噴霧機 Fogging Solution
MOP 480.00

加入購物車

自動感應式測溫泡沫機套裝配 SteriMac 消毒抗菌泡沫補充裝 1L Automated Dispenser (Temp. Scan) with SteriMac Hand Foam Sanitizer 1L
MOP 1,390.00

加入購物車

自動感應式測溫泡沫機
MOP 650.00

加入購物車

抗疫雙霧炮套裝 MOP 280.00

商戶防疫三寶《售完即止》 ~~MOP 1,850.00~~ MOP 998.00

多用途抗菌消毒噴霧 500 ml (限時限量，送完即止) MOP 78.00

消毒抗菌濕巾 (1包) ~~MOP 18.00~~ MOP 16.00

購滿$100可送貨

抗菌消毒濕巾套裝 (買三送一) (限時優惠) MOP 48.00

- 買3送1
- 購滿$100可送貨

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線上宣傳推廣

網上FB各種宣傳海報

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線下各展覽推廣

提高品牌知名度

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線下各大超市藥房售賣













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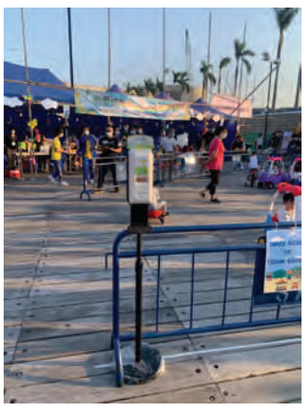
客戶訂制專業計劃



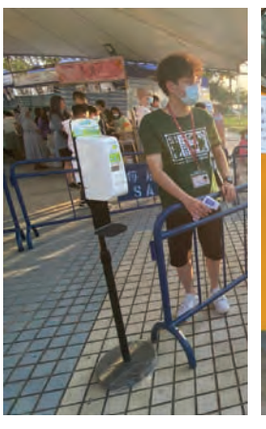








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線下慈善活動

網上FB各種宣傳海報

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套裝組合展示

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LOG REDUCTION CHART

Log reduction	% of germs	Fold reduction
1 log	90	10
2 log	99	100
3 log	99.9	1,000
4 log	99.99	10,000
5 log	99.999	100,000
6 log	99.9999	1,000,000

SteriZar achieves 6 log reduction

Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Understanding log kill rates

Log 1 CASUAL CLEANING
90% of bacteria killed (1 in 10 survive). Possibility of resistance developing in microbial population.

Log 2 CLEANING
99% of bacteria killed (1 in 100 survive). Possibility of resistance developing in microbial population.

Log 3 THOROUGH CLEANING
99.9% of bacteria killed (1 in 1,000 survive). Still possibility of resistance developing.

Log 4 SANITISING
99.99% of bacteria killed (1 in 10,000 survive). Must achieve this for EN surface tests.

Log 5 DISINFECTION
99.999% of bacteria killed (1 in 100,000 survive). Basis of EN testing. Must achieve this for most suspension tests.

Log 6 HIGH LEVEL DISINFECTION
99.9999% of bacteria killed (1 in 1,000,000 survive). Using EN tests, a log 6 reduction would mean 100% kill of bacteria in a test suspension.

Log 8
Level of inoculum used for EN suspension tests. 100 million bacteria per ml.

D C Watson BSc, CBiol, MIBiol, MIFST, ACIEHO
PO Box 95, New Ferry, Wirral, CH62 6HA
Tel: 0151 637 3331 Mob: 07767 871275
email: abbottanalytical@hotmail.co.uk

Test Report: BS EN 14476:2013 + A2:2019 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area- Test method and requirements (Phase 2/Step 1)

Test Laboratory	**BluTest Laboratories Ltd** 5 Robroyston Oval, Nova Business Park, Glasgow, G33 1AP
Identification of sample	
Name of the product	STERIZAR
Batch number	9720
Client	Creative Supply Solutions
Client Address	Malvern Suite, South Wing, Earl Mill, Dowry Street, Oldham, Manchester, OL8 2PF, United Kingdom.
Project Code	BT-CSS-03
Date of Delivery	09 July 2020
Storage conditions	Ambient
Active substances	Benzalkonium chloride; Didicyldimethyl ammonium chloride.
Appearance	Liquid
Condition upon receipt	Undamaged
Test Method and its validation	
Method	1 part interfering substance + 1 part virus suspension + 8 parts biocide were mixed and incubated at the indicated contact temperature for the indicated contact times. Assays were validated by a cytotoxicity control, interference control, neutralisation control and a formaldehyde internal standard.
Neutralisation	Dilution-neutralisation/gel filtration Eagles Minimum Essential Medium + 5.0% v/v foetal bovine serum at 4°C
Experimental Conditions	
Period of analysis	10 July – 15 July
Product diluents used	Sterile distilled water
Product test concentrations	10.0% v/v; 50.0% v/v; 80.0% v/v
Appearance product dilutions	No changes noted- stable
Appearance in test mixture	No changes noted- stable
Contact times (minutes)	1 ± 10s
Test temperature	20°C ± 1°C
Interfering substances	0.3g/l bovine albumin
Temperature of incubation	37°C ± 1°C + 5% CO_2
Identification and passage (P) of virus	***Vaccinia virus*** **VR-1549 Elstree strain (P07)**
Identification and passage (P) of cells	Vero Cells (P 32) (*Vaccinia Virus*)

BLUTEST LABORATORIES LIMITED, 5 Robroyston Oval, Nova Business Park, Glasgow, UK, G33 1AP
Telephone: +44 (0)141 558 2782. Email: info@blutest.com. Web site: www.blutest.com.
Company Registration Number: SC364409 VAT Registration Number: GB 979 1131 96 UKAS Number: 4597

PROTOCOL SUMMARY

The basic virucidal efficacy test is set up with three concentrations of test product solution and a1 minute contact time. Virus is exposed to disinfectant in 24-well plates, then neutralised, serially diluted and virus titred in 96-well tissue culture plates to determine the tissue culture infectious dose$_{50}$ ($TCID_{50}$) of surviving virus. *Vaccinia virus* VR-1549 Elstree strain / Vero cells are assayed in each test. $TCID_{50}$ is determined by the method of Karber[1].

Cytotoxicity control
The test product solution is measured for its effects on the host cells used to propagate the virus, to determine the sensitivity of the assay.

Interference control
The effect of the cells after treatment of the test product solution are verified to ensure the cells can show susceptibility for virus infection. This is compared against cells that have not been treated with test product.

Disinfectant suppression control VS1
Virus is added to the highest concentration of test product solution and then the mixture immediately removed and neutralised. The neutralised virus titre is then determined to assess the efficiency of the neutralisation procedure.

Disinfectant suppression control VS2
Internal control which adds virus to neutralised test product solution to assess the efficiency of the neutralisation procedure.

No column Control
Internal control on the highest contact time to assess any impact of the Microspin™ S 400 HR columns.

Virus recovery control
Virus titre is determined for virus in contact with sterile distilled water at t=0, t =1 and at t =15. The virus titre after1 minute is then compared to the recovery of disinfectant-treated virus to measure the log reduction in virus titre. The virus titre at 15 minutes is compared to the reference virus inactivation control.

Reference virus inactivation control
Virus is exposed to 0.7% W/V formaldehyde and the recovery of virus determined by $TCID_{50}$ after 5 and 15 minutes, in order to assess that the test virus has retained reproducible biocide resistance. In addition, the formaldehyde cytotoxicity of neutralised formaldehyde is determined, to measure assay sensitivity.

1Kärber, G.: Beitrag zur Kollektiven Behandlung Pharmakologischer Reihenversuche. Arch. Exp. Path. Pharmak. 162 (1931): 480-487.

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Vaccinia virus (VR-1549) Elstree strain Test Results

EN14476:2013 + A2:2019 Suspension test for the efficacy of STERIZAR, Batch 9720, BT-CSS-03 from Creative Supply Solutions against Vaccinia virus ATCC VR-1549 under CLEAN conditions						
Test Results						
Concentration	10.0% (v/v)		50.0% (v/v)		80.0% (v/v)	
Exposure Time	data	$TCID_{50}$/ml	data	$TCID_{50}$/ml	data	$TCID_{50}$/ml
t = 1 minute	0.00	3.16E+01	0.00	3.16E+01	0.00	3.16E+01
Raw Data		3.16E+01		3.16E+01		3.16E+01
log		1.50		1.50		1.50
log difference		5.00		5.00		5.00

EN14476:2013 + A2:2019 Suspension test for the efficacy of STERIZAR, Batch 9720, BT-CSS-03 from Creative Supply Solutions against Vaccinia virus ATCC VR-1549 under CLEAN conditions									
Summary Table									
Product:	Interfering substance	Concentration	Level of cytotoxicity	lg $TCID_{50}$					>4 lg reduction after 'X' Min
				0 min	1 min	15 min	30 min	60 min	
STERIZAR	0.3 g/l bovine albumin	80.0% (v/v)	1.50	1.50	1.50	1.50	n.a.	n.a.	< 1 minute
		50.0% (v/v)	1.50	n.a.	1.50	1.50	n.a.	n.a.	< 1 minute
		10.0% (v/v)	1.50	n.a.	1.50	1.50	n.a.	n.a.	< 1 minute
Virus Control	CLEAN			6.50	6.50	6.50	6.50	6.50	n.a.
							5 min	15 min	
Formaldehyde	PBS	0.7% (w/v)	3.50				4.67	3.50	>15 mins

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Vaccinia virus (VR-1549) Elstree strain Control Data

EN14476:2013 + A2:2019 Suspension test for the efficacy of STERIZAR, Batch 9720, BT-CSS-03 from Creative Supply Solutions against Vaccinia virus ATCC VR-1549 under CLEAN conditions												
Controls												
Virus Recovery 0 min		Virus Recovery 1 min		Virus Recovery 15 min		Cytotoxicity		Disinfectant Suppression VS		Disinfectant Suppression VS2	
raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml
5.00	3.16E+06	5.00	3.16E+06	5.00	3.16E+06	0.00	3.16E+01	0.00	3.16E+01	4.67	1.48E+06
	3.16E+06		3.16E+06		3.16E+06		3.16E+01		3.16E+01		1.48E+06
	6.50		6.50		6.50		1.50		1.50		6.17
									5.00		0.33

Formaldehyde reference inactivation controls							No column Control	
Cytotoxicity		Exposure time	0.7% Formaldehyde				1 min	
			5 mins		15 mins			
raw data	$TCID_{50}$/ml		raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml	raw data	$TCID_{50}$/ml
2.00	3.16E+03		3.17	4.68E+04	2.00	3.16E+03	5.33	6.76E+06
	3.16E+03			4.68E+04		3.16E+03		6.76E+06
	3.50	log		4.67		3.50		6.83
		log difference		1.83		3.00		

Interference control	Virus dilution						Stock Virus ($TCID_{50}$)
	-3	-4	-5	-6	-7	-8	6.17
PBS Control	1	1	1	1	0	0	4.68E+07
	3.16E+02	3.16E+02	3.16E+02	3.16E+02	3.16E+01	3.16E+01	
	2.50	2.50	2.50	2.50	1.50	1.50	
Raw Data	6	6	6	6	0	0	
Product	1	1	1	1	0.17	0	
	3.16E+02	3.16E+02	3.16E+02	3.16E+02	4.68E+01	3.16E+01	
	2.50	2.50	2.50	2.50	1.67	1.50	
Raw Data	6	6	6	6	1	0	
Log Difference	0.00	0.00	0.00	0.00	-0.17	0.00	
Product Cyt Dilution	-1	-1	-1	-1	-1	-1	
PBS Dilution	Neat	Neat	Neat	Neat	Neat	Neat	

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CONCLUSION

Verification of the methodology

A test is only valid if the following criteria are fulfilled:

a) The titre of the test suspension is sufficiently high to at least enable a titre reduction of 4 lg to verify the method.
b) Detectable titre reduction is at least 4 $\log_{10}$.
c) Difference of the logarithmic titre of the virus control minus the logarithmic titre of the test virus in the reference inactivation test is between:
   - Between 0.75 and 3.5 after 5 min and between 2.0 and 4.0 after 15 min for Vaccinia virus
d) Cytotoxicity of the product solution does not affect cell morphology and growth or susceptibility for the test virus in the dilutions of the test mixtures which are necessary to demonstrate a 4 $\log_{10}$ reduction of the virus.
e) The interference control result does not show a difference of > 1.0 $\log_{10}$ of virus titre for test product treated cells in comparison to the non-treated cells.
f) Neutralisation validation. This is called the disinfectant suppression test in this protocol. The disinfectant was neutralised by column chromatography through an Illustra Microspin S-400 HR column to achieve the best possible neutralisation available for this test. The difference for virus is greater than 0.5 $\log_{10}$ indicating rapid irreversible virucidal activity of the disinfectant by dilution at a concentration of 80.0% v/v for VS1. This neutralisation validation has been verified by VS2, which shows the product has been successfully neutralised. The difference for virus is not greater than 0.5 $\log_{10}$ indicating effective neutralisation of the virucidal activity of the disinfectant by dilution at a concentration of 80.% v/v.

According to EN 14476:2013 + A2:2019, **STERIZAR POSSESSES VIRUCIDAL** activity at a concentration of **10.0, 50.0 and 80.0 % v/v** of the working concentration as tested after **1 MINUTE** at **20°C** under **CLEAN** conditions (0.3 g/l bovine albumin) against *Vaccinia virus* VR-1549 Elstree strain / Vero cells.

This product therefore is effective against all enveloped viruses as defined in EN 14476:2013 + A2:2019 Annex A*. This therefore includes all coronaviruses and SARS-CoV-2.

Authorised signatory

Dr Chris Woodall, Director
BluTest Laboratories Ltd
Glasgow, UK
Date: 24 JULY 2020

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***EN 14476 2013 + A2 2019 Annex A (informative – Enveloped viruses)**

Poxviridae
Herpesviridae
Filoviridae (e.g. Ebola, Marburg)
Flavivirus
Hepatitis C Virus (HCV)
Hepatitis Delta Virus (HDV)
Influenza Virus
Paramyxoviridae
Rubella Virus
Measles Virus
Rabies Virus
Coronavirus (e.g. SARS, MERS)
Human Immunodeficiency Virus (HIV)
Human T Cell Leukemia Virus (HTLV)
Hepatitis B virus (HBV)

Reference: Van Regenmortel MHV et al.,Eds.: Virus Taxonomy, Classification and Nomenclature of Viruses, seventh report of the international committee on taxonomy of viruses. Academic Press, San Diego, 2000

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各項認證

皮膚敏感性測試

Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s):	One sample of Sterizar		
Received from:	Creative Supply Solutions Ltd. Malvern Mill, South Wing, Earl Mill, Dowry Street, Oldham, OL8 2PF		
Date received:	8 February 2010	**Date tested:**	11 February 2010
Certficate no:	10B.068ST.CSS	**Certficate date:**	17 February 2010
Sample ref:	10B/068	**Page:**	1 of 2
Analysis required:	Skin sensitivity test		

Method:

Approximately 0.5ml of Sterizar was placed on a sterile lint gauze (2cm x 2cm in size) and taped to the upper arm of each subject. A similar size piece of untreated gauze was also taped to the arm as a negative control. Each subject was asked to leave the gauze in place overnight and was examined the following day, comparing the treated patch with the untreated patch for any evidence of skin irritation.
The results are recorded in the table on page 2.

Conclusion:

Sterizar does not show any adverse dermatological effect when in contact with human skin for 24 hours.

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17 February 2010 Certificate No: 10B.068ST.CSS

Results:

Subject	Observations	
1	No redness	No irritation
2	No redness	No irritation
3	Slight redening of skin	No irritation
4	No redness	No irritation
5	No redness	No irritation
6	No redness	No irritation
7	No redness	No irritation
8	Slight redening of skin	No irritation
9	No redness	No irritation
10	No redness	No irritation
11	No redness	No irritation
12	No redness	No irritation
13	No redness	No irritation
14	No redness	No irritation
15	Redness due to irritation	Slight irritation

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各項認證 HALA(英國清真品質保證) certification

HALAL MONITORING COMMITTEE - UK
حلال HMC

Halal Certificate

Certificate Number:

2020 – 316

This is to certify that the following product(s):

- ***Steri45 Clean Guard Floor Cleaner***
- ***Steri49+ Floor Cleaner***
- ***SteriZar Antibac Body Wash (scented) 500ml, 5lt***
- ***SteriZar Antibac Hand Wash (scented) 500ml, 5lt***
- ***SteriZar Hand Foam Sanitiser 50ml, 600ml, 5lt***
- ***SteriZar Hand Gel Sanitiser 100ml, 500ml, 5lt***
- ***SteriZar Hand Sanitiser 50ml, 500ml, 5lt***
- ***SteriZar Hand wipes tubs and packs***
- ***SteriZar Hard Surface Sanitiser (scented) 750ml, 5lt***
- ***SteriZar Hard Surface Sanitiser (unscented) 750ml, 5lt***
- ***SteriZar Surface wipes tubs and packs***

Manufactured by the following company:

Creative Supply Solutions Ltd

Submitted by and Manufactured at:

Creative Supply Solutions Ltd

Malvern Suite, Earl Mill, Dowry Street, Oldham, OL8 2PF

Were found to conform to the strict Halal criteria gained from Islamic Dietary Law; based on the thorough research carried out on the information supplied by them as the ***'Manufacturer'***. HMC (UK) and its Board therefore Certifies the above product(s) created by the above ***'Company's Manufacturing Unit'*** as Halal.

Date of issue:
01st September 2020

Date of expiry:
31st August 2021

Nadeem Adam (BSc) Hons
(Operations Manager)

Moulana Mohamed Suleman Fakir
(On Behalf Of The HMC (UK) Board)

Halal Monitoring Committee is a working name of HMC (UK) which is a registered charity (charity no. 1147462), and a company limited by guarantee (company no. 7914375). Registered in England and Wales.

This certificate remains the property of HMC and can be revoked at the discretion of HMC at any time.
Non-Transferable - No Photocopies
Misuse of this certificate constitutes fraud

各項認證

EN13697 物件表面三十天抗菌效果

Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s):	One sample of Sterizar		
Received from:	Creative Supply Solutions Ltd. Malvern Mill, South Wing, Earl Mill, Dowry Street, Oldham, OL8 2PF		
Date received:	31 March 2010	**Date tested:**	18 May 2010
Certificate no:	10C.151ST.CSS	**Certificate date:**	21 May 2010
Sample ref:	10C/151	**Page:**	1 of 2
Analysis required:	BS/EN 13697 quantitative non-porous slide for evaluation of bactericidal activity of chemical disinfectants		

Product stored at:	Room temperature
Active substance:	Not declared
Test conditions:	
Product test concentration:	Neat as received
Product diluent used during test:	N/A
Contact time:	5 minutes
Test temperature:	20°C ± 0.5°C
Interfering substance:	3g/l bovine albumin
Neutralising solution:	30g/l polysorbate 80, 3g/l lecithin, 1g/l histidine, 1g/l cysteine
Incubation temperature:	37°C ± 1°C
Identification of bacterial strains used:	Methicillin-resistant *Staphylococcus aureus* NCTC 12493 *Escherichia coli* NCTC 10418

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各項認證

EN13697 物件表面三十天抗菌效果

Abbott Analytical

Consulting Scientists to the Disinfectant Industry

21 May 2010 Certificate No: 10C.151ST.CSS

Test Procedure:

Glass slides were thoroughly cleaned, rinsed in sterile distilled water and allowed to air dry. A total of 4 slides were treated with Sterizar by spraying the slide with a fine mist, completely covering the slide. These were allowed to air dry then kept in clean sterile Petri dishes for 30 days at room temperature.

After the 30 days 0.2ml of an overnight suspension of the test organism was applied to each of the treated slides (2 slides per test organism). The suspension was spread evenly over the slide using a sterile spreader. After 5 minutes contact time swabs were taken from the slides for each test organism and the swab placed in 10ml of a neutralising solution, shaken vigorously to re-suspend any surviving organisms and 1ml aliquots from this placed into separate sterile Petri dishes. Tryptone Soy Agar was added to the Petri dishes and mixed thoroughly. Once set the Petri dishes were incubated at 37°C for 48 hours and the number of surviving organisms counted.

A further 4 untreated control slides were similarly infected with the test organisms and swabbed after 5 minutes in the same way as the test slides. The results obtained are tabulated in the following section.

Test results:

Test organism	Contact time	Sterizar		Control	
MRSA	5 minutes	210	160	3.43×10^5	2.62×10^5
E. coli	5 minutes	610	520	4.09×10^5	4.68×10^5

Conclusion:

According to the test procedure detailed above, Sterizar is effective in killing Methicillin-resistant *Staphylococcus aureus* and *Escherichia coli* after one application. This effectiveness was sustained for the duration of the 30 day test period.

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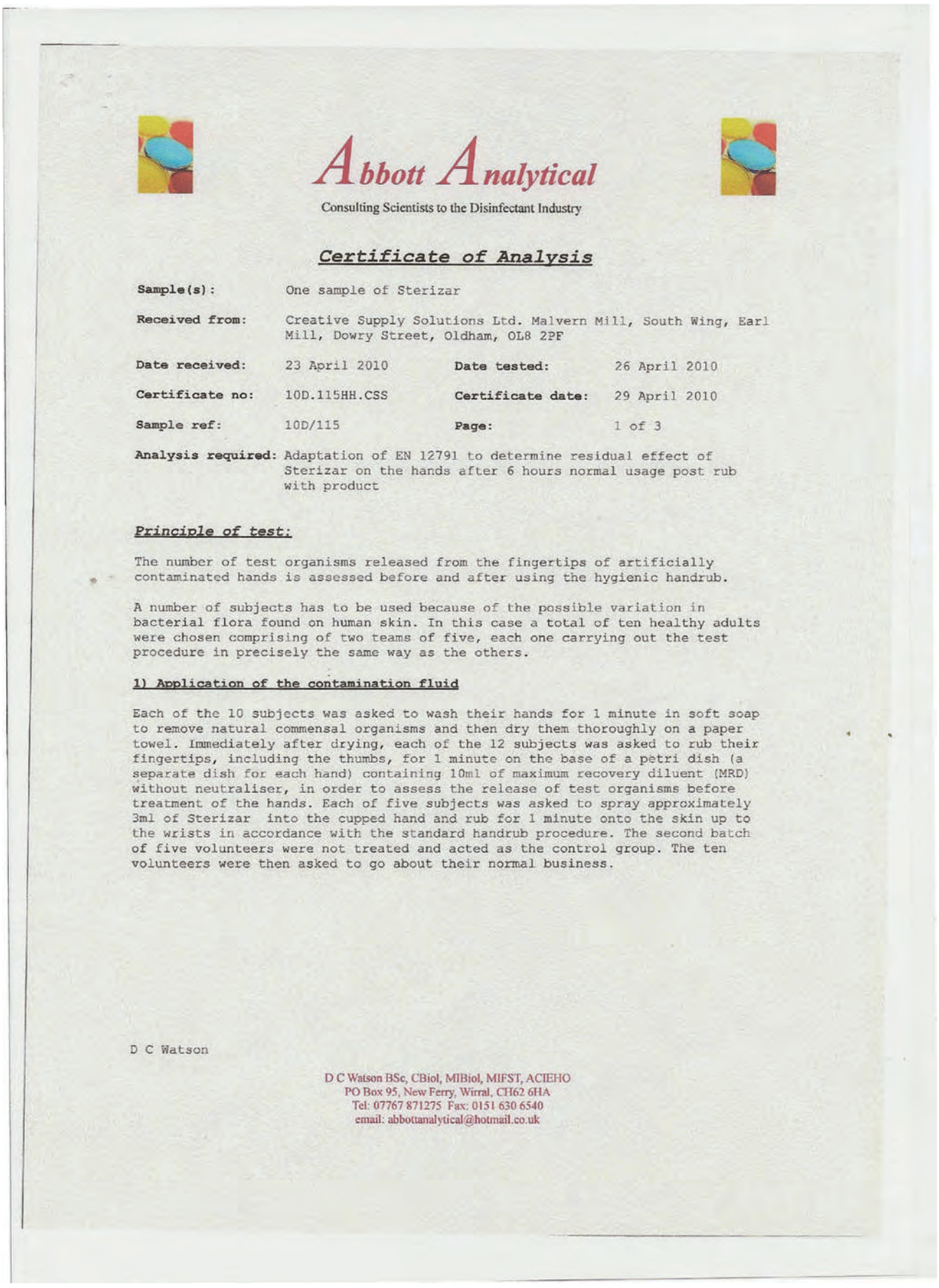
各項認證

EN12791 皮膚表面6小時抗菌保護



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Certificate of Analysis

Sample(s): One sample of Sterizar

Received from: Creative Supply Solutions Ltd. Malvern Mill, South Wing, Earl Mill, Dowry Street, Oldham, OL8 2PF

Date received: 23 April 2010 **Date tested:** 26 April 2010

Certificate no: 10D.115HH.CSS **Certificate date:** 29 April 2010

Sample ref: 10D/115 **Page:** 1 of 3

Analysis required: Adaptation of EN 12791 to determine residual effect of Sterizar on the hands after 6 hours normal usage post rub with product

Principle of test:

The number of test organisms released from the fingertips of artificially contaminated hands is assessed before and after using the hygienic handrub.

A number of subjects has to be used because of the possible variation in bacterial flora found on human skin. In this case a total of ten healthy adults were chosen comprising of two teams of five, each one carrying out the test procedure in precisely the same way as the others.

1) Application of the contamination fluid

Each of the 10 subjects was asked to wash their hands for 1 minute in soft soap to remove natural commensal organisms and then dry them thoroughly on a paper towel. Immediately after drying, each of the 12 subjects was asked to rub their fingertips, including the thumbs, for 1 minute on the base of a petri dish (a separate dish for each hand) containing 10ml of maximum recovery diluent (MRD) without neutraliser, in order to assess the release of test organisms before treatment of the hands. Each of five subjects was asked to spray approximately 3ml of Sterizar into the cupped hand and rub for 1 minute onto the skin up to the wrists in accordance with the standard handrub procedure. The second batch of five volunteers were not treated and acted as the control group. The ten volunteers were then asked to go about their normal business.

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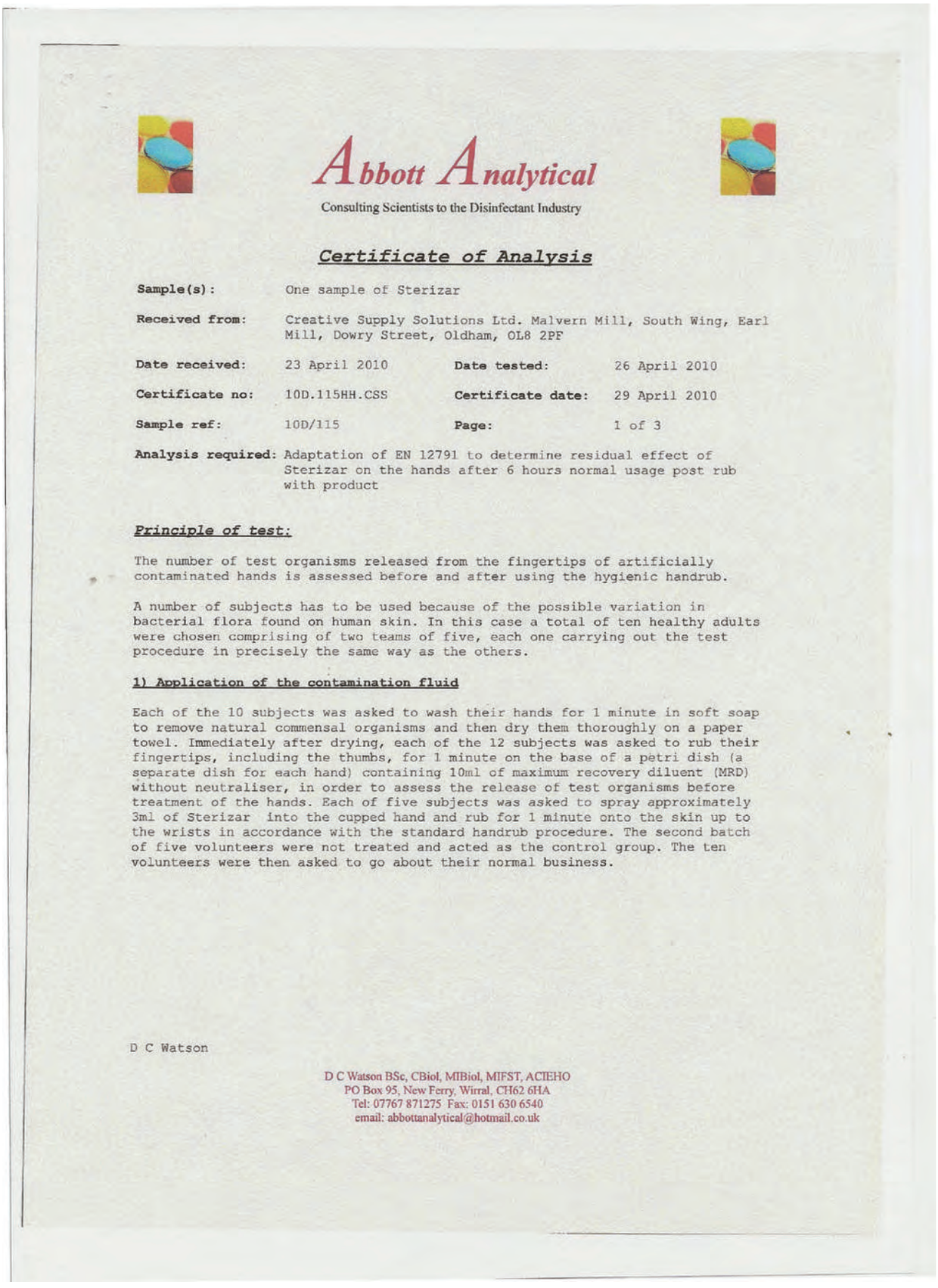
各項認證

EN12791 皮膚表面6小時抗菌保護



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Certificate of Analysis

Sample(s): One sample of Sterizar

Received from: Creative Supply Solutions Ltd. Malvern Mill, South Wing, Earl Mill, Dowry Street, Oldham, OL8 2PF

Date received: 23 April 2010 **Date tested:** 26 April 2010

Certificate no: 10D.115HH.CSS **Certificate date:** 29 April 2010

Sample ref: 10D/115 **Page:** 1 of 3

Analysis required: Adaptation of EN 12791 to determine residual effect of Sterizar on the hands after 6 hours normal usage post rub with product

Principle of test:

The number of test organisms released from the fingertips of artificially contaminated hands is assessed before and after using the hygienic handrub.

A number of subjects has to be used because of the possible variation in bacterial flora found on human skin. In this case a total of ten healthy adults were chosen comprising of two teams of five, each one carrying out the test procedure in precisely the same way as the others.

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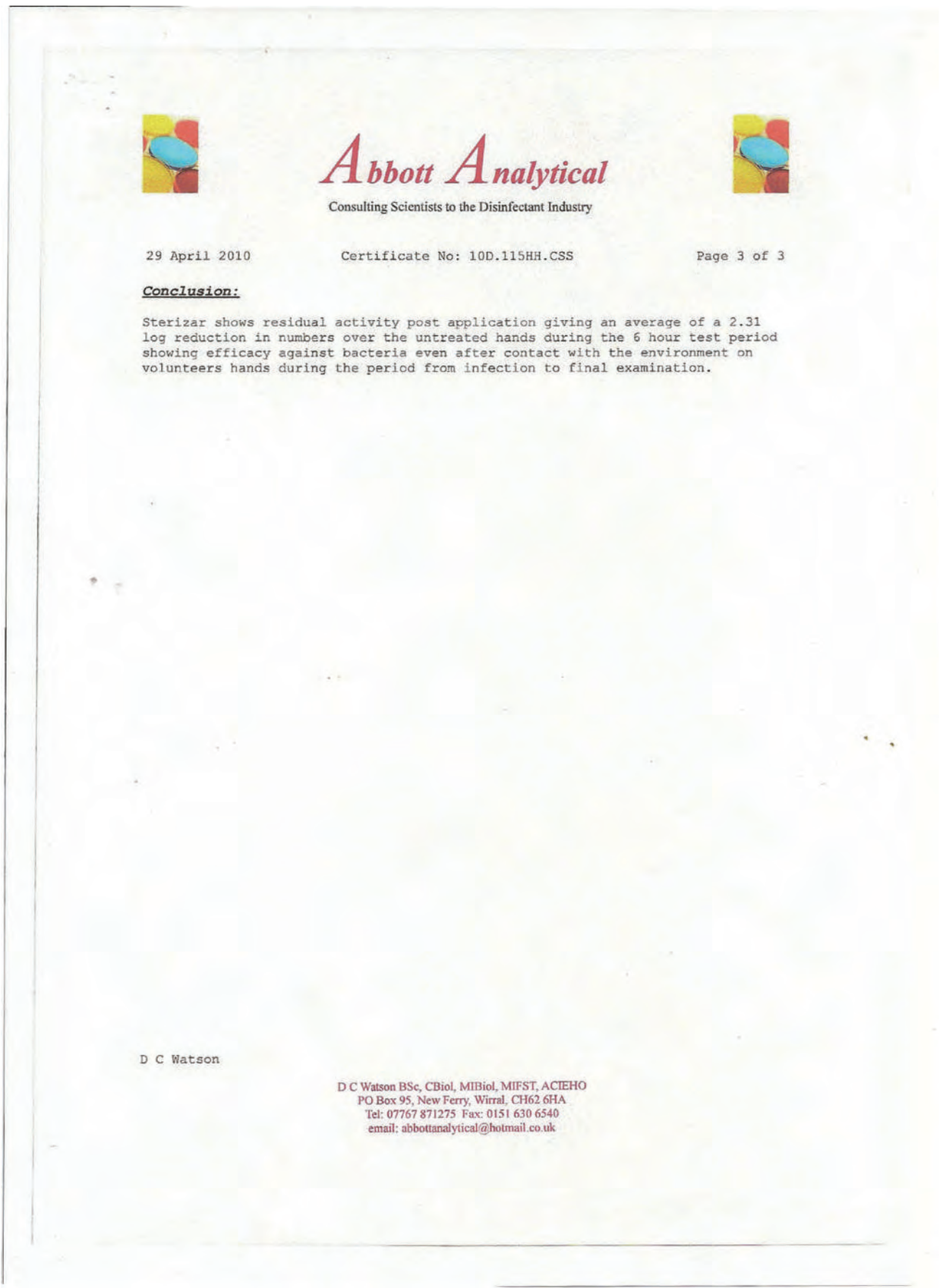
各項認證

EN12791 皮膚表面6小時抗菌保護



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29 April 2010 Certificate No: 10D.115HH.CSS Page 3 of 3

Conclusion:

Sterizar shows residual activity post application giving an average of a 2.31 log reduction in numbers over the untreated hands during the 6 hour test period showing efficacy against bacteria even after contact with the environment on volunteers hands during the period from infection to final examination.

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各項認證

不鏽鋼清潔無痕跡測試

Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s):	One sample of Sterizar		
Received from:	Creative Supply Solutions Ltd. Malvern Mill, South Wing, Earl Mill, Dowry Street, Oldham, OL8 2PF		
Date received:	18 February 2010	**Date tested:**	3rd March 2010
Certficate no:	10B117t.CSS	**Certficate date:**	5th March 2010
Sample ref:	10B/117	**Page:**	1 of 1
Analysis required:	Qualitative test to determine organoleptic effect of residual product after cleaning of a surface		

Procedure:

disinfectant solutions can react with food in various ways. The most obvious of these is to change the colour, smell or texture of the food material. This is particularly obvious in chemically treated foods such as cured cooked meats. The object of this test is to determine if any or all of these organoleptic parameters was affected by residual disinfectant on a cleaned surface.

A clean stainless steel workbench was sprayed with Sterizar disinfectant solution, wiped with a clean sterile cloth to get an even spread of the solution over the surface and then allowed to air dry for approximately one hour.

When visibly dry, slices of Cooked Ham, Cooked Beef and Cooked Pork were placed on the surface and allowed to be in contact with the surface for 15 minutes. Slices of meat from the same batch of product were also placed on a clean stainless steel surface which had not been treated with chemical disinfectant as a control group. After this time each item of food was examined for change in colour smell or texture.

Result.

In all cases there was no evidence of change of colour, smell or texture in the test samples when compared to the control.

Conclusion.

The is no residual organoleptic residual effect of Sterizar when used to clean stainless steel surfaces under normal cleaning conditions.

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TEST RESULTS

		INDEX	TEST LOG REDUCTIO	STANDARDS	Test Number	Date
1)	TEST DATA SUMMARY	List of all test data				
2)	BS / EN 1275	Aspergillus Niger Candida Albicans	5.28 5.20	4.00 4.00	10A.053M.CSS	9.02.10
3)	BS / EN 1276	Pseudomonas Aeruginosa Escherichia Coli Staphylococcus Aureus Enterococcus Hirae	6.77 6.66 6.56 6.70	5.00 5.00 5.00 5.00	10A.053B.CSS	9.02.10
4)	BS / EN 1276 (Std & 20%)	Salmonella Typhimurium Listeria Monocytogenes	6.80 6.72	5.00 5.00	10B.068SL.CSS	17.02.10
5)	BS / EN 1276	Klebsiella Pneumoniae (NDM-1)	6.44	5.00	10B.117ND.CSS	25.08.10
6)	BS / EN 1500	Hygienic Handrub Test	Pass		10B.117HH.CSS	3.03.10
7)	BS / EN 1656	Streptoccus Equi	6.59	5.00	10C.151SE.CSS	14.04.10
8)	BS / EN 12791	Residual Activity After 6 Hours	Pass		10D.115HH.CSS	29.04.10
9)	BS / EN 13623	Legionella Pneumophila	5.09	4.00	10A.053L.CSS	11.02.10
10)	BS / EN 13697	MRSA (Effective Killing in 30 Secs) E Coli (Effective Killing in 30 Secs)	4.77 5.19	4.00 4.00	10A.053.CSS	29.01.10
11)	BS / EN 13697	MRSA (Effective in Killing for 30 Days) E Coli (Effective in Killing for 30 Days)	Pass Pass		10C.151ST.CSS	21.05.10
12)	BS / EN 13704 (5 Mins)	C. Difficile	5.34	3.00	10D.115.CD.CSS	29.04.10
13)	BS / EN 13727 (Std)	MRSA	6.27	5.00	10A.053.MR.CSS	15.02.10
14)	BS / EN 14348 (Neat)	Mycobacterium Avium Mycobacterium Terrae	6.56 6.49	5.00 5.00	10B.117MB.CSS	22.02.10
15)	Skin Sensitivity Test	No Adverse Dermatological Effect	Pass		10B.068ST.CSS	17.02.10
16)	Stainless Steel Taint Test	No Residual Organoleptic Effect	Pass		10B.117t.CSS	5.03.10
17)	Evaluation of Fogger	Coverage and Kill Within an Area	Effective		10K.024.CSS	19.10.10
18)	BS / EN 1650 (1 : 20)	Aspergillus Niger Candida Albicans	5.56 6.61	4.00 4.00	10D.140M20.CSS	17.05.10
19)	EN 14476	Norovirus	Pass	Pass		
20)	BS / EN 1276	Cronobacter Sakazakii	5.36	5.00	10D.140CJ.CSS	24.06.10
21)	Test Hand Wash 2 Hours	Residual Test after washing	Pass		12G.130HD.CSS	8.02.12
22)	BS / EN 13727	Acinetobacter Baumannii	5.23	5.00	12K.138MAb.CSS	31.10.12
23)	BS / EN 1276	Steri49+ AntiBacterial Test 1276	5.20	5.00	12K.138MAb.CSS	31.10.12

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