



For further information or a quotation please contact : Colin Walters



SeedOS

Radiation Oncology, Urology and General Medical Equipment and Services

26, The Maltings, Leighton Buzzard, Bedfordshire LU7 4BS, United Kingdom

Tel: +44 1525 850670 Fax: +44 1525 850685 Email: cwalters@seedos.com

Website: www.seedos.com Mobile: +44 07701059163

Zola Predosa, 14th July, 2008

Rif. Your order n. 1259-A/FZ of February 01st 2008

TEST REPORT N° 1556/08
EFFICACY TEST

TEST SAMPLE:

- Denomination: **ANTIMICROBIAL & ANTIFUNGAL STICKY MAT (wafer of 30 layers)**
- Code: MULTIMAT MMB45
- Lot: 0068-07
- Sterilization: N.A.
- Sampling carried out by: STERYLAB S.r.l.
- Receipt number: 071009-06
- Receipt date: 09/10/2007

Test date: from 12/05/2008 to 21/05/2008, from 03/06/2008 to 10/06/2008 and from 30/06/2006 to 04/07/2008.

References: ASTM E 2180 - 01 "Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) In Polymeric or Hydrophobic Materials"

Summary of practice: both sticky mat with and without benzoisothiazoline 3-one (Treated test material - MULTIMAT and Control test material - Common mat) are cut into 3,0 cm x 3,0 cm square pieces. A standardised bacterial culture (1×10^6 cell/ml) is placed onto the treated and control samples. The count of the bacterial colonies grown is made at time "0" (immediately after sowing) and after a 24 h incubation period. For each microorganism the test is made in triplicate both for treated and control test materials, at time "0" and after a 24 h incubation period. The results are expressed as percent bacterial reduction in treated sample versus control test material.



Micro-organism used for the test:

- Corynebacterium striatum ATCC BAA-1293
- Enterococcus faecalis ATCC 29212 NA
- Staphylococcus aureus ATCC BAA-811 (MRSA)
- Candida tropicalis ATCC MYA-3404
- Escherichia coli
- Enterococcus faecalis (VRE) ATCC 700221 NA
- Acinetobacter baumannii ATCC BAA-747
- Aspergillus fumigatus ATCC MYA-3626
- Stenotrophomonas maltophilia ATCC 13270

RESULTS AFTER 0 h

	Common mat Control test material average ufc/ml	MULTIMAT Treated test material average ufc/ml	% red.
Corynebacterium striatum	3733333	1616667	56,70
Enterococcus faecalis	2900000	2200000	24,14
MRSA	4133333	2966667	28,23
Candida tropicalis	3866667	2600000	32,76
E. coli	3533333	3333333	5,66
VRE	3033333	2233333	26,37
Acinetobacter baumannii	540000	346667	35,80
Aspergillus fumigatus	46000	44000	4,35
Stenotrophomonas maltophilia	343333	290000	15,53



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ANALISI CHIMICO-FISICHE
MICROBIOLOGICHE
BIOCOMPATIBILITA'
CONSULENZA TECNICA
BIOTECNOLOGIE

RESULTS AFTER 24 h

	Common mat Control test material average ufc/ml	MULTIMAT Treated test material average ufc/ml	% red.
Corynebacterium striatum	89333	3340	96,26
Enterococcus faecalis	983333	9857	99,00
MRSA	2526667	202333	91,99
Candida tropicalis	3566667	2593333	27,29
E. coli	2166667	0	100,00
VRE	820000	686667	16,26
Acinetobacter baumannii	1900000	0	100,00
Aspergillus fumigatus	24000	2033	91,53
Stenotrophomonas maltophilia	0	0	/

The present test report is exclusively referred to the tested sample.
The present test report can't be partially reproduced without Biochem authorization.

Test carried out by: Lorena Bongiovanni, Dr.

Issue authorized by:
Study Director Giovanni Bassini, Eng. Ch.

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VIA MARZOCCHI 2A - 40069 ZOLA PREDOSA (BO) - TEL +39-51.75.52.95 - FAX +39-51.75.46.22 - P.IVA IT 03531810376 - R.E.A. BO-297535

www.biochem-bcm.com E-mail: info@biochem-bcm.com