

FUNGICIDAL EFFECTIVENESS**ANALYTICAL REPORT**

Customer: EUROFINS LABORATORIES LTD
D3 Broadoak Business Park
Ashburton Road West
M17 1RW MANCHESTER
ANGLETERRE
A l'attention de :M Simon BLACKHURST

1 - Identification of sample :

Product: **SAGEWASH SANITIZER**
Batch: 4043-0029
Analysis number (Eurofins): **ACE-2010-00031381**
Date of reception: 08/07/10
Condition of storage: Room temperature
Test date: 27/07/10

Used strains: *Candida albicans* ATCC 10231
Aspergillus niger ATCC 16404

2- Operating procedure:

NF EN 1650, Octobre 2008.

3- Test method and validation:

Method: Membrane filtration
Neutralizing thinner: Pharmacopoeia diluting neutralizing agent

4- Experimental conditions:

Product concentration: 100%
Contact time: 15 minutes
Test temperature: Room temperature
Incubation temperature: 30 ± 1°C
Interfere substance: 0.3 g/l albumin from bovine serum
Time of water running through the sprayer: 10 minutes

5- Result

5-1 : Methods validations by membrane filtration for the product

Bacteria	Number of viable cells (CFU/ml)		Number of viable cells (CFU/plate)		
	Bacterial suspension: N	Bacterial suspension N_{v_0}	Experimental conditions (A)	Filtration control (B)	Method validation (C)
<i>Candida albicans</i> ATCC 10231	$2,0 \cdot 10^7$	98	93	88	90
<i>Aspergillus niger</i> ATCC 16404	$1,6 \cdot 10^7$	78	70	73	69
$30 \leq N_{v_0} \leq 160$ A ; B ; C $\geq 0.5 \times N_{v_0}$					

The filtration method is validated with the Pharmacopoeia rinsing liquid (DNP) for the diluted product tested.

5-2 : Test result :

Bacteria	Number of viable cells for the following concentrations (Na):
	Result (solution)
<i>Candida albicans</i> ATCC 10231	<140
<i>Aspergillus niger</i> ATCC 16404	<140
Reduction Log R = Log N_0 - Log Na ($N_0 = N \times 10^{-1}$)	
	Result (solution)
<i>Candida albicans</i> ATCC 10231	>4.1
<i>Aspergillus niger</i> ATCC 16404	>4.1

Specification: The product shall be deemed to have passed the EN 1650 standard if it demonstrates in a valid test at least a 4 log reduction within 15 min or less at 20°C with the chosen interfering substance simulating clean or dirty conditions defined by this standard when the test organisms are *Candida albicans* and *Aspergillus niger*.

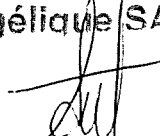
6 – Conclusion

Results for the product pure tested are conform to the norm NF EN 1650, for a contact time of 15 minutes after 10 minutes water running through the sprayer.

Technician: EM

Deputy Pharmacist

Angélique SABATIER



29/07/10