

BIG WIPES™

19th January 2014



Big Wipes 4x4 Antibacterial Test

Summary:

According to EN 1276, the batch: **Syc mp 4-002** of the product **Sycamor BIG WIPES 4X4** possesses bactericidal activity in 1 minute at 200C, under dirty conditions (3g/l bovine albumin), for references strains: *Pseudomonas aeruginosa*, *E. coli*, *Staphilococcus aureus* and *Enterococcus hirae*.

Product name:

**Multi Purpose (Black) Heavy Duty (Red)
Multi Surface (Green) Power Spray (Red)
ALL SIZES**



BIG WIPES™

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Report for the Evaluation of the Bactericidal Activity of

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1. Identification of test laboratory

Institute for Food Microbiology and Consumer goods LTD

2. Identification of test Sample

Name of product:	Sycamor BIG WIPES 4X4
Manufacturer:	Sycamor group
Application:	
Substance(s) and concentration(s) in 100 g	
Batch	Syc mp 4-002
Active substance	Not declared
Sampled by	The customer
Appearance and odor	Opaque, beige liquid
Conditions of storage	Room temperature
Date of receipt at laboratory	25/12/2013
Lab number	1759/12

3. Reference:

BS EN 1276: Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas-(phase 2, step 1)

4. Definition:

EN 1276 defines a bactericidal product, when it has the capability to produce at least a 10^5 reduction in the number of viable cells of the tested organisms, under defined experimental conditions.

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5. Principle of the test method:

A test suspension of bacteria in a solution of 0.3% bovine albumin, as an interfering substance, was added to the undiluted product. The mixture was maintained at 20⁰C-23⁰C, for 1 min., then the bactericidal action of the product was neutralized, and the number of surviving bacteria, was determined.

6. Test organisms:

1. *E. coli* ATCC 8739
2. *Staphylococcus aureus* ATCC 6538
3. *Pseudomonas aeruginosa* ATCC 9027
4. *Enterococcus hirae* ATCC 10541

The bacterial strains were maintained and counted by the pour plate method in accordance with EN 1276: (2009).

7. Experimental conditions:

Tested product	Sycamor-BIG WIPES 4X4 Formula SYC MP 4-002
Test Temperature	20 ⁰ c ± 0.5 ⁰ c
Concentration of test product	Not declared
Contact times	1 minutes
Interfering substance	3.0g/l bovine albumin- dirty conditions
Neutralizing Method	Membrane Filtration
Neutralizer	
Temperature of incubation	30 ⁰ C ± 1 ⁰ C

8. Test procedure:

Membrane Filtration method was used for assessing the bactericidal effect of the product, and the results are summarized in Table No. 2.

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9. Validation and verification of the methodology:

Validation tests are summarized in Table No. 2.

Verification of the methodology for each test organism:

- a) The number of CFU/ml of the bacterial test suspension is between 1.5×10^8 and 5.0×10^8 CFU/ml (N in Table No. 1).
- b) The number of CFU/ml of the bacterial suspension is between 6.0×10^2 and 3.0×10^3 CFU/ml (Nv in Table No. 2).
- c) The number of CFU/ml of the neutralizer toxicity control (B in Table No. 2) is equal to, or greater than 0.05 times the number of CFU/ml of the bacterial suspension (Nv in Table No. 2).
- d) The number of CFU/ml of the dilution – neutralization control (C in Table No. 2) is equal to, or greater than 0.5 times the number of CFU/ml of the neutralizer toxicity control (B in Table No. 2).
- e) The number of CFU/ml of the experimental condition validation (A in Table No. 2) is equal to, or greater than 0.05 times of the number of CFU/ml of the bacterial suspension (Nv in Table No. 2).

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Table No. 1: Test results

Test Organisms	Test suspension cells/ml (N)	Conc. Of the product 100%	Conc. Of the product 50%	Conc. Of the product 25%
<i>E. coli</i> ATCC 8739	10 ⁻⁶ : >165 10 ⁻⁷ : 29,21 N: 2.6 x 10 ⁸	Vc: 0,0 Na: <140 lgNa:<2.15 Lg R :>5.26	Vc: 0,0 Na: <140 lgNa:<2.15 LgR :> 5.26	Vc: 0,0 Na: <140 lgNa:<2.15 LgR : > 5.26
<i>Staphylococcus aureus</i> ATCC 6538	10 ⁻⁶ : >165 10 ⁻⁷ : 33,19 N: 2.8 x 10 ⁸	Vc: 0,0 Na: <140 lgNa:<2.15 Lg R :>5.29	Vc: 0,0 Na: <140 lgNa:<2.15 LgR :>5.29	Vc: 0,0 Na: <140 lgNa:<2.15 LgR :>5.29
<i>Pseudomonas aeruginosa</i> ATCC 9027	10 ⁻⁶ : >165 10 ⁻⁷ : 22, 18 N: 1.9 x 10 ⁸	Vc: 0,0 Na: <140 lgNa:<2.15 Lg R :>5.12	Vc: 0,0 Na: <140 lgNa:;2.15 LgR :>5.12	Vc: 0,0 Na: <140 lgNa:;2.15 LgR :>5.12
<i>Enterococcus hirae</i> ATCC 10541	10 ⁻⁶ : >165 10 ⁻⁷ : 19,22 N: 2.4 x 10 ⁸	Vc: 0,0 Na: <140 lgNa:<2.15 Lg R :>5.23	Vc: 0,0 Na: <140 lgNa:<2.15 LgR :>5.23	Vc: 0,0 Na: <140 lgNa:<2.15 LgR :>5.23

Vc = Viable Count

N = Number of CFU/ml of the bacterial test suspension

Na = Number of CFU/ml in test mixture

R = Reduction in viability

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Table No. 2: Validation and controls

Test Organisms	Validation suspension	Experimental Conditions control	Filtration Control	Method Validation
<i>E. coli</i> ATCC 8739	Vc: 194,188 N _{v0} : 1.9x10 ²	Vc: 151,141 A: : 1.5x10 ²	Vc: 103,132 B: 1.2 x10 ²	Vc: 189,193 C: 1.9 x10 ²
<i>Staphylococcus aureus</i> ATCC 6538	Vc: 199,215 N _{v0} : 2.0x10 ²	Vc: 155,146 A: 1.5x10 ²	Vc: 165,130 B: 1.5x10 ²	Vc: 188,189 C: 1.9x10 ²
<i>Pseudomonas aeruginosa</i> ATCC 9027	Vc: 189,217 N _{v0} : 2.0x10 ²	Vc: 125,148 A: 1.3 x10 ²	Vc:137,143 B: 1.4 x10 ²	Vc: 166,172 C: 1.7x10 ²
<i>Enterococcus hirae</i> ATCC 10541	Vc: 139,143 N _{v0} : 1.4x10 ²	Vc: 100,142 A: 1.3 x10 ²	Vc: 114,113 B: 1.1 x10 ²	Vc: 144,163 C: 1.5 x10 ²

Vc = Viable Count

N_v = Number of CFU/ml of the bacterial suspension

N = Number of CFU/ml of the bacterial Test suspension

A = Number of CFU/ml of the experimental conditions validation

B = Number of CFU/ml of neutralization toxicity validation

C = Number of CFU/ml of the dilution-neutralization validation

10. Conclusions:

According to EN 1276, the batch: **Syc mp 4-002** of the product **Sycamor BIG WIPES 4X4** possesses bactericidal activity in 1 minute at 20⁰C, under dirty conditions (3g/l bovine albumin), for references strains: *Pseudomonas aeruginosa*, *E. coli*, *Staphylococcus aureus* and *Enterococcus hirae*.