

Date: 24 June 2010

By:

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At the request of:

Mr Breuil Patrick

SPM – Protections Murales et Mains courantes

16 rue Isabelle Eberhardt

BP 92083

31019 Toulouse Cedex 2

I-Identification of samples to be tested

Sample reference:

100531 01: DécoCHOC

100531 02: SPM range profile

Date received at laboratory: 30/05/2010

Type of test to be carried out: Test according to JIS Z 2801 standard on *Klebsiella pneumoniae*.

Treatment if any: none

II-Type of media used

Name: peptone / salt diluent

Reference: DIFCO, 218971

Batch number: 8346227

Date of preparation: 14/06/2010

Name: Plate Count Agar

Reference: DIFCO, 247940

Batch number: 9245249

Date of preparation: 21/06/2010

Name: Pharmacopoeia diluent

Reference: Fisher Scientific A0 0331274

Batch number: 00682

III-Bacterial strain used

Klebsiella pneumoniae 368 CIP

IV-Results

Under these experimental conditions:

- **The sample 100531 01 show heterogeneous bacteriostatic activity on *Klebsiella pneumoniae*.**
- **The sample 100531 02 show heterogeneous bacteriostatic activity on *Klebsiella pneumoniae*.**

Report prepared in triplicate

Issued in Lyon, on 24/06/2010

Scientific Advisor

Professor F.N. Renaud

[signature]

result sheet: JIS Z2801 standard simplified for antibacterial plastics

Date: 24/06/2010

Strain tested: *Klebsiella pneumoniae*

Test: **100531 01:** “DecoCHOC”
 100531 02: SPM range profile

Control used: glass slide

Deposition: 225 µL of a suspension at 2.5×10^5 CFU/mL

after 24 hours of incubation at 37°C					
Sample ref.	specimen	Ct ₂₄ (CFU)	log (Ct ₂₄)	Standard deviation	mean log(Ct ₂₄)
control (glass)	1	2.42E+07	7.38	0.03	7.35
	2	2.10E+07	7.32		
	3	2.25E+07	7.35		
Sample ref.	specimen	Et ₂₄ (CFU)	log (Et ₂₄)	Standard deviation	mean log(Et ₂₄)
100531 01	1	13,250	4.12	1.10	Heterogeneous results
	2	12,400	4.09		
	3	1,035,000	6.01		
100531 02	1	85	1.93	1.87	Heterogeneous results
	2	60,000	4.78		
	3	275,000	5.44		

Calculation of antibacterial activity:

sample 100531 01:

specimen 1: mean log (Ct₂₄) - log (Et₂₄) = 7.35 - 4.12 = 3.23 log => **bacteriostatic 3.23 log.**

specimen 2: mean log (Ct₂₄) - log (Et₂₄) = 7.35 - 4.09 = 3.26 log => **bacteriostatic 3.26 log.**

specimen 3: mean log (Ct₂₄) - log (Et₂₄) = 7.35 - 6.01 = 1.34 log => **bacteriostatic 1.34 log.**

=> **Heterogeneous results**

sample 100531 02:

specimen 1: mean log (Ct₂₄) - log (Et₂₄) = 7.35 - 1.93 = 5.42 log => **bacteriostatic 5.42 log.**

specimen 2: mean log (Ct₂₄) - log (Et₂₄) = 7.35 - 4.78 = 2.57 log => **bacteriostatic 2.57 log.**

specimen 3: mean log (Ct₂₄) - log (Et₂₄) = 7.35 - 5.44 = 1.91 log => **bacteriostatic 1.91 log.**

=> **Heterogeneous results**

Date: 09 July 2010

By:

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16 rue Isabelle Eberhardt

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31019 Toulouse Cedex 2

I-Identification of samples to be tested

Sample reference:

100531 01: DécoCHOC

100531 02: SPM range profile

Date received at laboratory: 30/05/2010

Type of test to be carried out: Test according to JIS Z 2801 standard on *Staphylococcus aureus*

Treatment if any: none

II-Type of media used

Name: peptone / salt diluent

Reference: DIFCO, 218971

Batch number: 8346227

Date of preparation: 28/06/2010

Name: Plate Count Agar

Reference: DIFCO, 247940

Batch number: 9245249

Date of preparation: 28/06/2010

Name: Pharmacopoeia diluent

Reference: Fisher Scientific A0 0331274

Batch number: 00682

III-Bacterial strain used

Staphylococcus aureus CIP 4.83

IV-Results

Under these experimental conditions:

- The sample 100531 01 is bacteriostatic on *Staphylococcus aureus* (activity of 2.76 log).
- The sample 100531 02 is bacteriostatic on *Staphylococcus aureus* (activity of 1.14 log).

Report prepared in triplicate

Issued in Lyon, on 09/07/2010

Scientific Advisor

Professor F.N. Renaud

[signature]

result sheet: JIS Z2801 standard simplified for antibacterial plastics

Date: 09/07/2010

Strain tested: *Staphylococcus aureus*

Test: **100531 01:** “DecoCHOC”
 100531 02: SPM range profile

Control used: glass slide

Deposition: 225 µL of a suspension at 2.5×10^5 CFU/mL

after 24 hours of incubation at 37°C					
Sample ref.	specimen	Ct ₂₄ (CFU)	log (Ct ₂₄)	Standard deviation	mean log(Ct ₂₄)
control (glass)	1	1.49E+06	6.17	0.07	6.23
	2	2.04E+06	6.31		
	3	1.58E+06	6.20		
Sample ref.	specimen	Et ₂₄ (CFU)	log (Et ₂₄)	Standard deviation	mean log(Et ₂₄)
100531 01	1	380	2.58	0.79	3.47
	2	11,500	4.06		
	3	6,050	3.78		
100531 02	1	150,000	5.18	0.34	5.09
	2	52,000	4.72		
	3	240,000	5.38		

Calculation of antibacterial activity:

sample 100531 01:

$$\text{mean log (Ct}_{24}\text{)} - \text{mean log (Et}_{24}\text{)} = 6.23 - 3.47 = 2.76 \text{ log} \Rightarrow \text{bacteriostatic } 2.76 \text{ log.}$$

sample 100531 02:

$$\text{mean log (Ct}_{24}\text{)} - \text{mean log (Et}_{24}\text{)} = 6.23 - 5.09 = 1.14 \text{ log} \Rightarrow \text{bacteriostatic } 1.14 \text{ log.}$$