

**GENERAL TESTING AND INVESTIGATION LABORATORY  
FOUND IN 1907**

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Cerdanyola del Vallés: 21st Novenber 1991

Dossier n°: 105.473

Petitioner reference: **LOTUM SA**  
and as its representative  
Mr Albert Cadirat  
Tibidabo St. 44-52  
08930 SANT ADRIA DE BESOS  
(Barcelona)

RECEIVED MATERIAL

A liquid sample of aseptic coating Wall Tech WB

REQUESTED MATTER

To determine the minimum lethal period of the aseptic coating Wall Tech WB in order to check the microbicide effect of this coating in contact with the bacterium *Pseudomonas Aeruginosa*.

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This document is composed of 2 pages, none of which is an appendix.

GENERALITAT DE CATALUNYA  
Assigned to the Departament of Industry and Energy

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Dossier N° 105.473

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**RESULTS**

The microorganisms were inoculated over non coated glass slides, and over slides protected with one coat of Wall Tech WB. The glasses were incubated at room temperature, in the darkness.

The samples were controlled at different periods of time in order to determine the minimum lethal period of Wall Tech WB. We got the following figures:

- Survival period of time: 24 hours
- Lethal period: 5 hours

OK  
Assistant to Technical Management Area 3

Head of Chemistry Laboratory

Tomás Quintana i Soler  
Dr Chemistry

Victor Ventura i Solans  
Bachelor of Chemistry

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The results on the above are exclusively referred to the samples, products or materials delivered to the Laboratory, as shown in Received Material section, and tested under the conditions described in the procedures mentioned in this document.

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Cerdanyola del Vallés: 21st November 1991

Dossier n°: 103.758-7

**Petitioner reference: LOTUM SA**  
and as its representative  
Mr Albert Cadirat  
Tibidabo St 44-52  
08930 SANT ADRIA DE BESOS  
(Barcelona)

RECEIVED MATERIAL

Transferred to the laboratory three samples of coatings, identified as:

X: Control n° 1

Y: Control n° 2

Z: Coating Wall Tech WB

REQUESTED MATTER

Study of the conduct of the bacteria *Pseudomonas Aeruginosa* in contact with samples of aseptic coatings.

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**RESULTS**

An study was carried out about the following microorganism, to be in contact with the above mentioned coatings:

**- Pseudomonas aeruginosa**

In order to carry out the above mentioned study, were prepared slips of paper, previously sterilized. After that the slips were impregnated with the coatings to be studied.

Once the filter papers were impregnated, they were allowed to dry. Then they were placed on Petri plates, containing the most suitable culture medium, depending if the following test was to be done for bacteria or for filamentous fungus or leaven. If the test was over bacteria the culture medium to be choosed was the Trypticase Soja Agar (TSA). When the test was for filamentous fungus and specially for Candida Albicans, the choosen culture medium was Sabourand Glucosed Agar at 2%.

At the same time there were prepared several suspensions on physiological sterile serum, of any microorganism to be studied. The solutions were placed on the plates, that were already prepared with the culture medium and the filter paper impregnated with the coating to be tested. Any microorganism was sowed on three different plates, containing the three coatings, and on a control plate, in order to check the feasibility of the cultures.

The incubation temperature was the suitable for any kind of microorganism, keeping the samples in wet atmosphere during one month, all through which and every 7 days were taken the figures detailed in the following table:

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I			II			III			IV		
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
+	+	++	-	+	++	-	+	++	-	+	++

I: Figures after 7 days

II: Figures after 14 days

III: Figures after 21 days

IV: Figures after 28 days

The numbers and letters correspond to the microorganisms and coatings above mentioned.

- + => Inhibition of the microbial growth on the coating.
- ++ => Inhibition of the microbial growth on and around the coating.
- => No inhibition of the microbial growth

In all the control plates was seen growth of the studied microorganisms.

**NOTE:** Please find attached photos of the plates, taken 15 days after the beginning of the test.

OK

Technical Director

Head of Chemistry Laboratory

Ramón Capellades i Font  
Dr Chemistry

Victor Ventura i Solans  
Bachelor of Chemistry

The results on the above are exclusively referred to the samples, materials or products delivered to the Laboratory, as shown in Received Material section, and tested under the conditions described in the procedures mentioned in this document.

Z6

X6