



NOGUCHI MEDICAL RESEARCH INSTITUTE

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Antibacterial test report

抗菌性試験検査 報告書

Measurement sample: BAE Energy Sheet

Test location: General Incorporated Foundation Boken Quality Evaluation Organization Tokyo Test Center 1-2-1,
Mori, Koto-ku, Tokyo

Report number; No.30120041552・1

Test method:

Antibacterial test JIS L 1902 (Bacterial solution absorption method, using yellow cocci. Standard cloth (cotton) is used as the control sample)

Bacterial solution absorption method;

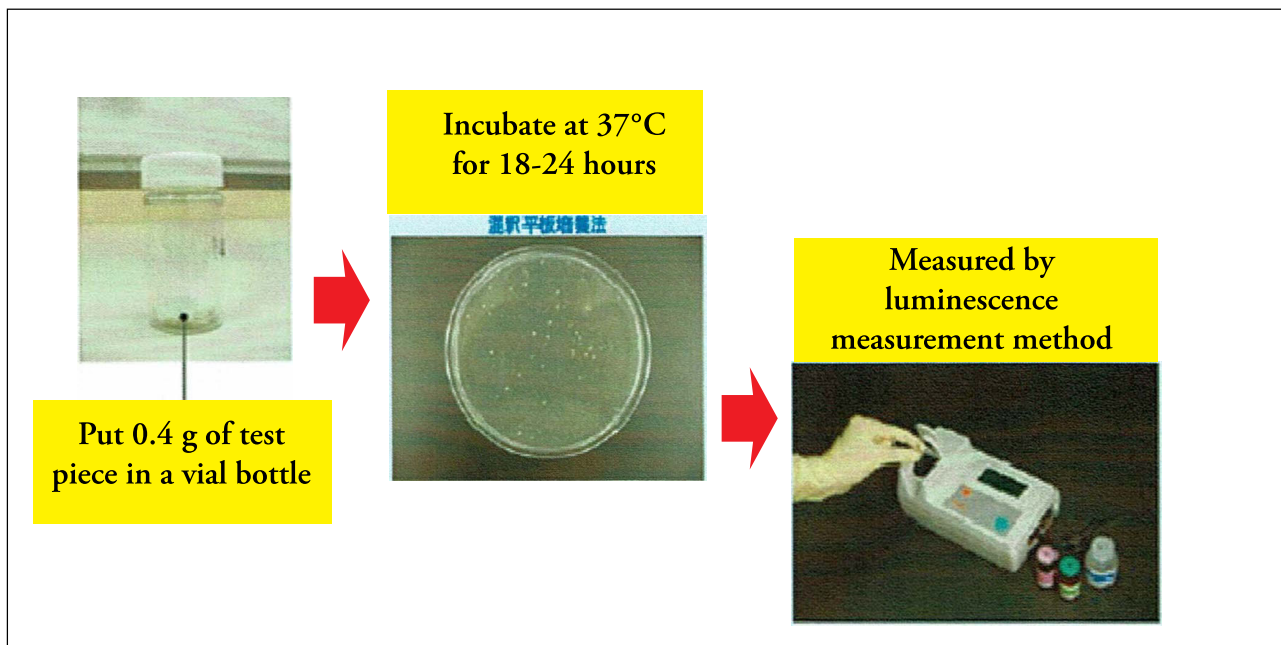
The most common method for antibacterial testing of textile products. General Incorporated Association Textile Evaluation Technology Council

• It is also a test method for SEK Mark's "antibacterial and deodorant processed textile products" and "antibacterial processed fiber products" certification standards. Soak the sample with the bacterial solution and examine the change in the bacterial count after a certain period of time.

1. Put 0.4 g of the test piece in a vial bottle, add 0.2 ml of the test bacterial solution, and then cover the vial bottle.
2. Incubate the vial at 37 ° C for 18-24 hours
3. Add 20 ml of wash-out solution to wash out the test bacteria from the test piece, and measure the number of viable bacteria in the wash-out solution by the pour-mix plate culture method or the luminescence measurement method.
4. Calculate the antibacterial activity value according to the following formula
Antibacterial activity value = {log (control sample / viable cell count immediately after inoculation) 1 log (control sample / viable cell count immediately after inoculation)} - {log (test sample / viable cell count immediately after inoculation) 1 log (test sample / viable cell count immediately after inoculation) number}

Antibacterial deodorant processing evaluation criteria: Antibacterial activity value 2.2

Bacterial solution absorption method



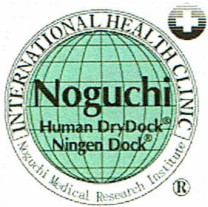
Result

Sample	Antibacterial activity value
BAE Energy Sheet	5.9
Standard cotton growth value	2.7

Consideration:

The antibacterial activity value of BAE Energy Sheet was **5.9**, which greatly exceeded the evaluation standard value of 2.2, and it was judged that the antibacterial effect was sufficiently exerted.

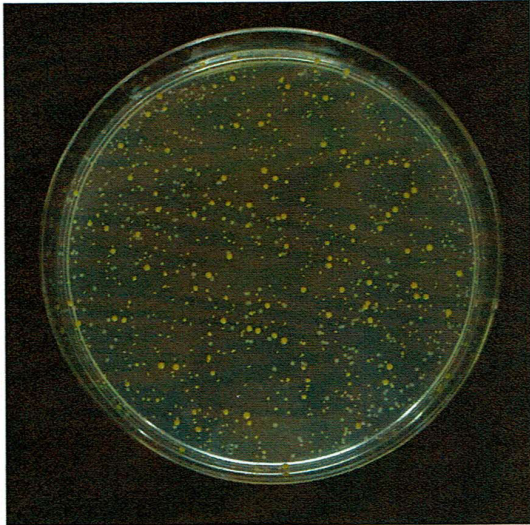
Demand for antibacterial substances (which suppress the growth of bacteria on the surface of products) has been increasing for some time, but nowadays when the need for infectious disease control is called out, further demand is expected to grow, and antibacterial substances are expected. In the current situation where it has spread to processed textile products, the need for textile products that have high antibacterial activity values such as BAE Energy Sheet and are expected to be used in various scenes is further increased. It is considered that it may be.



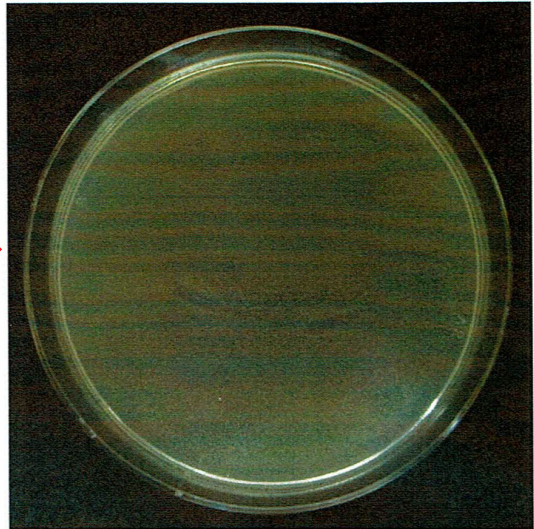
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Result photo:

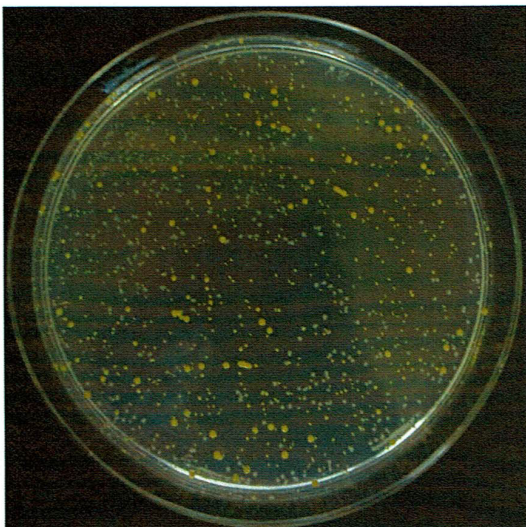
1. Immediately after standard cloth inoculation



2. Standard cloth - 18 hours later



3. Immediately after inoculation of BAE Energy Sheet



4. BAE Energy Sheet - 18 hours later

