

BACTERIOLOGICAL LABORATORY

Experiment Results Report:

**Evaluation of Influence of Aires Fractal-Matrix Structurizers (FMS)
on Growth of E.Coli and S. Aureus Microorganism Colonies**

A Brief Description of Fractal-Matrix Structurizers «Aires Electromagnetic Anomaly Neutralizer»

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Aires electromagnetic anomaly neutralizer (TU 6398-001-53283825-2002) is a passive fractal-matrix resonator that is a universal spatial-wave Fourier transform able to analyze oscillations of electromagnetic field of any type (background, anthropogenic, biological) into their own harmonic components.

The operating principle of the neutralizer is based on the phenomenon of passive resonance during interaction between electromagnetic oscillations of any type of source with the neutralizer's resonant circuit made as a fractal-matrix topological layout on the surface of a silicon wafer using the Aires technology.

A Brief Description of S. Aureus

These are gram-positive microorganisms with a regular globular shape normally located in clusters. *S. aureus* produces large quantities of toxins and enzymes, most importantly coagulase plasma, fibrinolysin, lecithinase and some others. Diseases of staphylococcal aetiology are universally registered. So far, etiological significance of staphylococci has been established for 84 diseases. Clinical presentations vary broadly, from pyoderma to generalized forms of infection, often terminal. The experiment took into account the distinctive features of *S. aureus*: growth in the presence of high NaCl content, formation of pigment, lecithinase, ability to produce fibrinolysin.

The stock culture of *S. aureus* bred in amino peptide water was plated from 10^{-6} , 10^{-7} , 10^{-8} incubations in petri dishes with egg yolk high salt agar culture medium. The test dishes were covered with Aires electromagnetic anomaly neutralizers, and the reference dishes with the same incubations were not exposed (Fig. 1).



Fig. 1 Petri dishes with fractal-matrix structurizers

In the course of the test, 10^{-6} incubations were not taken into account because the amount of colonies could not be counted due to their large quantity, although visually it seemed that the number of colonies in the test decreased approximately tenfold.

The quantitative results of the 10^{-7} and 10^{-8} platings are given in Table #1.

Incubations	Test Number of colonies	Reference Number of colonies
10-7:	1350	1512
10-8:	822	1452

The above-mentioned data shows a certain decrease in the amount of grown colonies in the experiment as compared to the reference amount (Figs. 2, 3).



a)



b)

Fig. 2 Decrease in the number of grown colonies in the experiment (a) as compared to the reference (b) - 10^{-7} plating



a)



b)

Fig. 3 Decrease in the number of grown colonies in the experiment (a) as compared to the reference (b) - 10^{-8} plating