# Bacteriostasis

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检 测 报 告

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检测结果：

| | | | |
|---|---|---|---|
| 检测方法 | GB/T 21866-2008 抗菌涂料（漆膜）抗细菌耐久性能 | | |
| 测试样 | IPSE | | |
| 试样尺寸 | 50mm×50mm | 覆盖膜尺寸 | 40mm×40mm |
| 测试菌株 | 大肠杆菌 8099 | | |
| 菌液浓度 | 大肠杆菌 $6.0\times10^5$ CFU/mL | | |
| 接触时间 | 24h | | |

| 试验菌种 | 空白样品 24h 后<br>活菌数（CFU/片）<br>B | 样品 24h 后<br>活菌数（CFU/片）<br>C | 抗菌率（%）<br>R |
|---|---|---|---|
| 大肠杆菌<br>8099 | $4.2\times10^9$ | $<2.0\times10^4$ | 99.99 |

***报告结束***

**Bacteriostasis rate：99.99%**

- The micro current generated by the catalyst alloy is greater than the cell biological current of bacteria and algae, so it can block (block) the process of bacterial division or algae synthesis, so it has the effect of inhibiting the growth of bacteria and algae
- The electric field formed by micro current will cause the static potential change of microbial environment, resulting in the strong inhibition of enzyme activity in microbial cells, which weakens the reproductive ability of algae and bacteria; Especially for Gram-negative bacteria with weak cell wall
- The experiment shows that in normal temperature circulating water, the catalyst alloy has a good inactivation effect on moss, five kinds of Escherichia coli flora and Legionella, inhibits the attachment and corrosion of microorganisms to the equipment, and avoids the blockage of fluid equipment and water corruption.