

Study on the Anti-Bacteria Effect of the Commercial Scouring Pad、Cleaning Cloth and Dishwashing Liquid

Wei—Lun Lee Bai—Lun Wei Jia—Yun Sheu
Chia—Ching Lee Tsung—Hsien Chen Lin—Yi Liu

Ta Jen Institute of Technology Department of Environmental Engineering and Health

ABSTRACT

Anti-bacteria effect of ten different brands of the commercial dishwashing liquid、cleaning cloth and scouring pad respectively were tested against four *Escherichia coli*、*Pseudomonas aeruginosa*、*Staphylococcus epidermidis* and *Staphylococcus aureus* in this study。A comparison of phenol coefficient of the dishwashing liquid reveal a result of the decrease in the order *E.coli*、*P.aeruginosa*、*S.epidermidis*、*S.aureus*。And MIC showed $10^{-7} \sim 10^{-2}$ ml/ml against *E.coli*, $10^{-5} \sim 0.8$ ml/ml against *P.aeruginosa*, $10^{-8} \sim 10^{-2}$ ml/ml against *S.epidermidis* and $10^{-9} \sim 0.8$ ml/ml against *S.aureus*。Inhibition range of scouring pad and cleaning cloth respectively by Agar Plate Method rinsing with water 5 times, 10 times。The tencity were decrease with increase of washing times。With the exception of J1, Bactericidal activity of the scouring pad、cleaning cloth and dishwashing liquid by shake flask method reveal decrease with increase of washing times. And J1 had most bactericidal activity (mean=90.23%)。

keyword : Scouring Pad、Cleaning Cloth、Dishwashing Liquid、Anti-bacteria.