



Figure 2 Antimicrobial effect of parabens in the formulated systems against *P. aeruginosa*

Antimicrobial results showed, that despite the equal concentration of parabens, the different excipients could significantly modify the inhibitory potential of the different tested compounds. There was no direct correlation between the two formulated systems as their results varied greatly.

4. Conclusions

We were able to formulate two complex co-solvent systems, in which, the cytotoxicity and antimicro-

bial effect of methyl paraben and butyl paraben were investigated. We found that, both parameters can be modified by other excipients present in the given liquid product. Inhibitory potential can be enhanced with synergetic application of excipients, thus the required concentration of parabens can be lowered.

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