Examination of the cleaning effect of EM·Effective® Microorganisms

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Materials and methods
The surfaces were cleaned and examined for impurities using the following methods:
• ATP measurement, luminescence method
• Microbiological examinations: determination of the total number of bacteria and the coliform impact using the Envirocheck® Rodac

Cleaning with EM·Effective® Microorganisms
• eMC® cleaner is based on EM·Effective® Microorganisms, which should split and dissolve dirt. This cleaning effect is enhanced by the addition of various biological additives.

The following work is intended to show if, with regard to its effectiveness, eMC® cleaner is in any way inferior to chemical cleaning agents.

The tests were carried out in a diversity of establishments and buildings. Products used regularly in the test objects were employed as comparative cleaners. In addition, a disinfectant that meets the demands of the ÖGHMP* and DGHM** was utilised as a reference in all the test objects.

Results
• Immediately after cleaning, the eMC® cleaner and the comparative cleaning agents achieved virtually identical results and were only marginally surpassed by the disinfectant.

24-48h following application, the surfaces cleaned with eMC® showed fewer bacteria than those cleaned conventionally (Fig.4). eMC® cleaned surfaces also demonstrated fewer high bacteria count groups (Fig.5).

The cleaning effect is dependent upon the cleaner concentration. In the course of time, an eMC® cleaner dilution of 1:100, showed superior results to a 1:1000 solution (Fig. 6). Nonetheless, the eMC® cleaner is effective within an extremely wide range of dilutions.

Conclusion
The cleaning capacity of eMC® cleaners is comparable with that of conventional chemical cleaning agents. eMC® cleaner is effective in a wide range of concentrations. The recurrence of bacteria on surfaces cleaned with eMC® is lower.

*Österreichische Gesellschaft f. Hygiene, Mikrobiologie und Präventivmedizin
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