

Memorandum

To  
Mrs. M. Theelen

From  
J.M.B.M. van der Vossen

Subject  
**Evaluation of TASKI JM Ultra Damp Mop in removing  
bacteriological contaminants**

Earth, Environmental and Life  
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Our reference  
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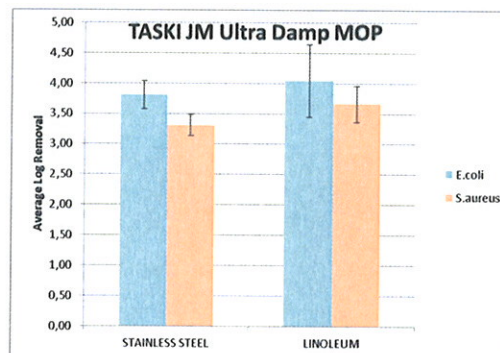
**Introduction**

At the request of Diversey Inc., TNO tested the efficacy of TASKI JM Ultra Damp Mop in removing bacteriological contaminants from a Linoleum and Stainless Steel surface. The linoleum surfaces were sealed with Jontec Resitol. For removing bacterial contaminants the tiles of the two materials were inoculated with a suspension of *Escherichia coli* ATCC 10536 representing the Gram-negative bacteria or *Staphylococcus aureus* ATCC 6538 representing the Gram-positive bacteria. The bacteria were inoculated at a level of approximately  $2 \times 10^6$  cfu/surface area, and allowed to dry 30 minutes at 37°C with high air humidity for deposition of the bacteria. After drying, the surface was exposed to the mechanically controlled wiping activity with the TASKI JM Ultra Damp Mop; 3 times back and forth at a pressure of 25 g/cm<sup>2</sup>. The mops were pre-wetted using fresh clean demineralised water. Each type of surface in combination with a bacterial species was tested nine times. After wiping, the surface was overlaid with culture medium, incubated at 37°C during 24 hours after which the number of colonies were counted.

**Results and conclusion**

The TASKI JM Ultra Damp Mop removes bacteriological contaminants from the two types of surfaces tested with good efficacy as presented in the figure and table below.

	<i>E.coli</i> Av. Log removal	<i>E.coli</i> % removal	<i>S aureus</i> Av. Log reduction	<i>S.aureus</i> % removal
<b>Linoleum</b>				
TASKI JM Ultra Damp Mop	4.04±0.60	99.991%	3.66±0.30	99.978%
<b>Stainless Steel</b>				
TASKI JM Ultra Damp Mop	3.81±0.23	99.985%	3.31±0.17	99.951%



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