Certificate

Bactericidal Efficacy of the Steam Vacuum Cleaner SGV 8/5

with floor nozzle and rubber lip insert

of the company

Alfred Kärcher GmbH & Co. KG, Alfred-Kärcher-Str. 28-40, 71364 Winnenden

using the standardised process of the 4-Field-Test

At the request of Alfred Kärcher GmbH & Co. KG Winnenden, the bactericidal efficacy of the Steam Vacuum Cleaner **SGV 8/5** with floor nozzle and rubber lip insert was tested. The simulation of practical conditions using the standardised process of the modified 4-Field-Test was applied. Therefore, the bactericidal efficacy of the Steam Vacuum Cleaner **SGV 8/5** was evaluated under clean conditions. Initially the contaminated PVC surface was pre-treated with maximum steam quantity. Afterwards all of the fields were cleaned at a speed of 30 cm/s during the wiping process in a combined steam/suction operation.

Steam Vacuum Cleaner **SGV 8/5** with floor nozzle and rubber lip insert (Alfred Kärcher GmbH & Co. KG)		
Device setting	preparatory treatment and practical application steam maximum, steam quantity regulation (level III)	**Log-reduction**
Test procedure	according to 4-Field-Test	
Methodical approach	preparatory treatment: steam operation practical application: steam/suction operation	**5.16 log$_{10}$**
Test organism	*Enterococcus hirae* ATCC 10541 (intestinal bacteria resist against higher temperatures)	**> 99.999%**
Interfering substance	clean conditions	
Test surface	PVC flooring	
Speed	30 cm/s	

The Steam Vacuum Cleaner **SGV 8/5** demonstrated a 5.16 log reduction of the test organism *Enterococcus hirae* ATCC 10541 in three independent tests. Therefore, a bactericidal efficacy of 99.999% has been scientifically confirmed.

The disinfecting effect of the Steam Vacuum Cleaner SGV 8/5 resulted in a > 5 log reduction for a combined steam/suction operation after a pre-treated steam operation.

Stuttgart, 2016-03-14

Priv.-Doz. Dr. rer. nat. Maren Eggers