Mission: Infection Prevention (M:IP)

Examples of clinically relevant pathogens, required disinfection efficacy and practical recommendations

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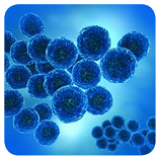

BACTERIA

Required efficacy	Practical recommendations	Additional information	HARTMANN Products RTU	HARTMANN Products concentrates
Standard efficacy (bactericidal EN 13727, yeasticidal EN 13624)[1]	Standard cleaning / disinfection procedure *, **	About 30% of people carry MSSA in their noses. Causes nosocomial infections (e. g. wound infections). *K. pneumoniae* can cause nosocomial pneumonia. Both are mostly transmittet via contact.	 Bacillol® 30 Sensitive Tissues / Foam	 Mikrobac® forte
Bacteria • *Neisseria meningitidis*	Disinfection of isolation rooms *** & terminal room disinfection	Causes bacterial meningitis. Transmission via droplets. Meningococcal vaccines are available against serogroups A, B, C, Y and W.	 Bacillol® AF Bacillol® AF Tissues	
Bacteria causing gastroenteritis or respiratory tract infections • Nontyphoidal *Salmonella spp., Campylobacter spp. or Shigella spp.* • *Streptococcus pneumoniae* • *Bordetella pertussis*	Disinfection of isolation rooms *** & terminal room disinfection	Various animals can be reservoirs for Salmonella (e.g. poultry, pigs, cattle, and reptiles). *Streptococcus pneumonia* is still a major cause of disease in developing and developed countries.	 Mikrobac® Tissues	 Dismozon® plus
Multidrug-resistant organisms • *Staphylococcus aureus (MRSA)* • Vancomycin-resistant enterococci (VRE) • Multidrug-resistant Gram-negative bacilli (MDRGNB)	Disinfection of isolation rooms & terminal room disinfection [2]	VRE may persist in the environment. Less therapy options for infections with multidrug-resistance. PPE often reasonable to prevent transmission.	 Mikrobac® Virucidal Tissues	

MYCOBACTERIA / SPORES

Required efficacy	Practical recommendations	Additional information	HARTMANN Products RTU	HARTMANN Products concentrates
Change to tuberculocidal activity / mycobactericidal	Without visible contamination, standard cleaning / disinfection procedure may be sufficient *	*Mycobacterium tuberculosis* is usually transmitted through air, not by surface contact.	 Bacillol® 30 Sensitive Tissues / Foam  Bacillol® AF Bacillol® AF Tissues	 Dismozon® plus
Sporicidal (EN 17126)	Disinfection of isolation rooms & terminal room disinfection [2]	*Clostridioides difficile* infection is mostly associated with previous use of antibiotics.		

Mycobacteria
• *Mycobacterium tuberculosis (MRSA)*

Spore-forming bacteria
• *Clostridioides difficile*

* According to risk assessment ** Always disinfect high-touch surfaces and visible contamination *** When isolation precautions are indicated
1: Standard efficacy for application in healthcare institutions (bactericidal activity EN 13727, yeasticidal activity EN 13624)
2: Consider complementary decontamination (UV-C, H2O2 vaporization) for some species or during outbreaks
SP : Sporicidal activity against *C. difficile*-spores (EN 17126) **Tuberculocidal activity** (*M. terrae* EN 14348, mycobactericidal EN 14348)
PPE: personal protective equipment

Use disinfectants safely. Always read the label and product information before use.

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Adapted from Assadian *et al.* (2021) Practical recommendations for routine cleaning and disinfection procedures in healthcare institutions: a narrative review. J Hosp Infect 113:104-114.

HSC_Clinical Relevant Pathogens Table_2021_09_EN

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FUNGI / YEAST

Required efficacy	Practical recommendations	Additional information	HARTMANN Products RTU	HARTMANN Products concentrates
Fungi • *Aspergillus fumigatus* **Fungicidal**	Standard cleaning / disinfection procedure *, **	Invasive pulmonary infection may occur in immunosuppressed patients.	 Bacillol® AF Bacillol® AF Tissues  Mikrobac® Virucidal Tissues	 Dismozon® plus
Yeast • *Candida albicans* • *Candida auris* **Yasticidal**[1]	Standard cleaning / disinfection procedure *, **	*Candida auris* has a propensity to cause outbreaks in healthcare facilities. Often intrinsic resistance to antifungals.	 Bacillol® 30 Sensitive Tissues / Foam  Bacillol® AF Bacillol® AF Tissues  Mikrobac® Tissues  Mikrobac® Virucidal Tissues	

* According to risk assessment ** Always disinfect high-touch surfaces and visible contamination
1: Standard efficacy for application in healthcare institutions (bactericidal activity EN 13727, yeasticidal activity EN 13624)

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VIRUSES

	Required efficacy	Practical recommendations	Additional information	HARTMANN Products RTU	HARTMANN Products concentrates
Enveloped viruses • Hepatitis B virus (HBV) • Human immunodeficiency virus (HIV)	**Standard efficacy[1] + Virucidal activity against enveloped viruses**	Standard cleaning / disinfection procedure *, ** Disinfection of isolation rooms & terminal room disinfection	Transmission of SARS-CoV-2 through contact with contaminated fomites is considered possible. 1-2% of children < 6 months with RSV infection may need to be hospitalized.	 Bacillol® 30 Sensitive Tissues / Foam  Bacillol® AF Bacillol® AF Tissues  Mikrobac® Virucidal Tissues  Mikrobac® Tissues	 Mikrobac® forte
Non-enveloped viruses causing gastroenteritis • Norovirus • Adenovirus	**Standard efficacy[1] + Limited spectrum of virucidal activity**	Disinfection of isolation rooms & terminal room disinfection	Norovirus is very contagious and can spread rapidly throughout healthcare facilities and is often responsible for nosocomial outbreaks.	 Bacillol® 30 Sensitive Tissues / Foam  Bacillol® AF Bacillol® AF Tissues	 Dismozon® plus
Non-enveloped viruses causing respiratory tract infections • Adenovirus			More than 50 different types of adeno-viruses can cause infections in humans e.g. respiratory illness, gastroenteritis, conjunctivitis, and cystitis.	 Mikrobac® Virucidal Tissues	

* According to risk assessment ** Always disinfect high-touch surfaces and visible contamination
1: Standard efficacy for application in healthcare institutions (bactericidal activity EN 13727, yeasticidal activity EN 13624)
envV: Virucidal activity against enveloped viruses (EN 14776)
lsv: Limited spectrum virucidal activity (EN 14476)
V: Virucidal activity (EN 14476)

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