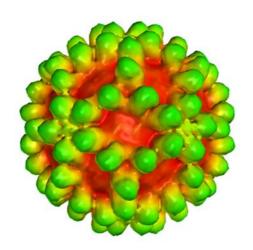


# **TECHNOLOGY SUMMARY**



### **Technology owner**

University Hospital Hradec Králové Czech Republic

## Inventor (s)

Aneta Marková Ondřej Soukup, Ph.D. Jan Marek, Ph.D. Michaela Hympánová

# IPR status confidential

# **Stage of Development**

certified tests according to EN standards

#### **Contact**

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# **NEW DISINFECTANT QASc**

## **Background**

Currently, the incidence of bacteria resistance to antimicrobial agents such as antibiotics, but also commonly used disinfectants, becomes an issue in the field of disinfection. In many cases, multidrug-resistant strains to both groups of anti-infectives compounds were described. This trend results from the long-term use of antibiotics and disinfectants, especially in hospitals where bacteria are constantly exposed to the selection pressure of antibiotics and thus the bacteria are able to develop resistance to antimicrobials due to evolutionary mechanism.

# **Description of the Invention**

We have prepared completely new substances with a broadspectrum effect: high antimicrobial potential against bacteria (EN 13727 + A2), mycobacteria (EN 14348), fungi (EN 13624) and enveloped viruses (EN 14476 + A2). Substance is significantly effective even at very low concentration.

#### Results for 0,06 % concentration:

	clean conditions		dirty conditions	
contact time (min)	1	5	1	5
EN 13727 + A2	+	+	+	+
EN 13624	+	+	+	+
(levurocidal effect)				
EN 14476 + A2	+	+	-	+

	clean conditions
contact time (min)	30
EN 14348	+

# **Advantages**

Effective at low concentration (0,06 %):

- low production costs
- low allergy potential
- friendly to surfaces
- waste-water friendly

# **Potential Applications**

- healthcare
- agriculture
- food industry