

# TEST CERTIFICATE

## BT-19-11-05-01

Dresden, 05/11/2019

**Client:** Swiss Krono Sp.z.o.o.  
ul. Serbska 56, 68-200 Żary, Poland

**Product:** BLATY KUCHENNE SWISS KRONO

**Order:** Determination of the antibacterial properties of a worktop surface

**Test engineer:** Dipl.-Biol. Katharina Plaschkes

**Test standard:** ISO 22196 (2011): Plastics – Measurement of the antibacterial activity on plastics surfaces.

**Replicates:** 6 (3 specimens, 2 replicates per dilution); 10 replicates for the reference N<sub>24</sub>

**Incubation:** 24 hours at 36 °C

**Reference material:** Polyethylene film

**Test area:** 40 mm × 40 mm

**Test report:** No. 2219043, 05/11/2019

**Results:**

	<i>Staphylococcus aureus</i> DSM 799	<i>Escherichia coli</i> DSM 1576
Concentration of the inoculum	5.0 × 10 <sup>5</sup> cfu/ml	5.0 × 10 <sup>5</sup> cfu/ml
Theoretical recovery rate	1.2 × 10 <sup>4</sup> cfu/cm <sup>2</sup>	1.2 × 10 <sup>4</sup> cfu/cm <sup>2</sup>
Recovery rate of viable bacteria after 0 hours on the reference material	2.9 × 10 <sup>4</sup> cfu/cm <sup>2</sup> lgN <sub>0</sub> = 4.5	3.6 × 10 <sup>4</sup> cfu/cm <sup>2</sup> lgN <sub>0</sub> = 4.6
Recovery rate of viable bacteria after 24 hours:		
▪ Reference material	2.6 × 10 <sup>4</sup> cfu/cm <sup>2</sup> lgN <sub>24</sub> = 4.4 = U <sub>T</sub>	3.7 × 10 <sup>5</sup> cfu/cm <sup>2</sup> lgN <sub>24</sub> = 5.6 = U <sub>T</sub>
▪ Test material "BLATY KUCHENNE SWISS KRONO"	< 1.3 × 10 <sup>1</sup> cfu/cm <sup>2</sup> lgN <sub>24</sub> < 1.1 = A <sub>T</sub>	< 1.3 × 10 <sup>1</sup> cfu/cm <sup>2</sup> lgN <sub>24</sub> < 1.1 = A <sub>T</sub>
Antibacterial activity: R = U <sub>T</sub> - A <sub>T</sub>	> 3.3*	> 4.5*

\*) A clear antibacterial activity is given if R ≥ 1.0.

The test material "BLATY KUCHENNE SWISS KRONO" is classified as "antibacterial".

Dresden, 05/11/2019

Head of laboratory



Engineer in charge