

# IoShield® Spray

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**Description** Double-performing sprayable shield for the daily teat disinfection and protection after milking.

## Strengths

The application of IoShield® Spray provides the following key benefits:

- Powerful and safe disinfection by PVP-iodine
- Long-lasting protection through unique "shield" technology
- Forms a breathable second skin

<b>Properties</b>	Appearance:	Clear, dark brown liquid
	Key ingredient(s):	Iodine (PVP), 0,15 g per 100 g
	pH at 20°C:	5.0 – 5.5
	Density at 20°C:	0.99 - 1.03
	Storage temperature:	+5°C to +25°C

<b>Application</b>		Double-performing Shield for teat disinfection and protection
	What:	
	When:	After milking
	How:	By spraying
	Use concentration:	Ready to use (RTU)
	Equipment:	<b>ECOLAB's JetStream® or another automatic or robotic spraying system</b>



Recommendation:

To be used at room temperature. After using loShield® Spray and before the next milking, clean the teats by using ECOLAB's prefoaming or wiping technology.

## Disinfection

## Application details

<b>Bactericidal efficacy at 30°C in accordance with DIN EN 1656 (suspension test)</b>			
Test Organism	Contact time	Log Reduction Factor	Dirty conditions
	[min]	[LogR]	[1% skim milk]
<b>Gram-positive bacteria</b>			
<i>Staphylococcus aureus</i> (DSM 799)	5	≥5	RTU
<i>Streptococcus uberis</i> (ATCC 19436)	5	≥5	RTU
<b>Gram-negative bacteria</b>			
<i>Escherichia coli</i> (DSM 682)	5	≥5	RTU

<b>Yeasticidal efficacy at 30°C in accordance with DIN EN 1657 (suspension test)</b>			
Test Organism	Contact time	Log Reduction Factor	Dirty conditions
	[min]	[LogR]	[1% skim milk]
<i>Candida albicans</i> (DSM 1386)	5	≥4	RTU

Microbial efficacy at 20°C in accordance with DIN EN 1500 (surface test)			
Test Organism	Contact time	Log Reduction Factor	Dirty conditions
	[min]	[LogR]	
<b>Gram-negative bacteria</b>			
<i>Escherichia coli</i> K12 (DSM 11250)	5	Mean RF of reference not significantly higher than that of the product : The requirements of the standard were fulfilled	RTU

Microbial efficacy at 30°C in accordance with DIN EN 14476 (suspension test)			
Test Organism	Contact time	Log Reduction Factor	Dirty conditions
	[min]	[LogR]	[1% skim milk]
<b>Gram-negative bacteria</b>			
<i>Vaccinia virus - Elstree strain</i>	5	≥4	RTU

1) The microorganisms tested are in accordance with the guidelines laid down in the EN methodologies and in EN14885: Application of European Standards for chemical disinfectants and antiseptics. The species used are representative species that take into account their relevance to practical use, susceptibility for disinfectants and adequacy for laboratory testing.



**Safety &**

**Precautions**

The relevant hazards identifications of IoShield® Spray are given in the Safety Data Sheet. If any questions arise in this context please contact your Ecolab representative.

Keep container tightly closed after use. Store in original container between +5°C and +25°C. Do not empty product into drain. Dispose of packaging only if emptied and closed.

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

The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **IoShield® Spray** in ordinary use but cannot be taken as a guarantee, express warranty or implied warranty for the suitability for a particular purpose and shall not extend mandatory warranty rights (if any). The specifications and performance may vary subject to the operational conditions. Since numerous parameters will influence product performance and applicability, this information does not exonerate the user from liability with respect to the suitability of the product and the appropriate safety measures to be taken. Moreover, a possible infringement of patent rights must be avoided at all times.

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