

# Leonica Genuine Leather<sup>®</sup> with Sanitized<sup>®</sup>



Material  
Protection



Hygiene  
Function



Odor-Free



# Technology

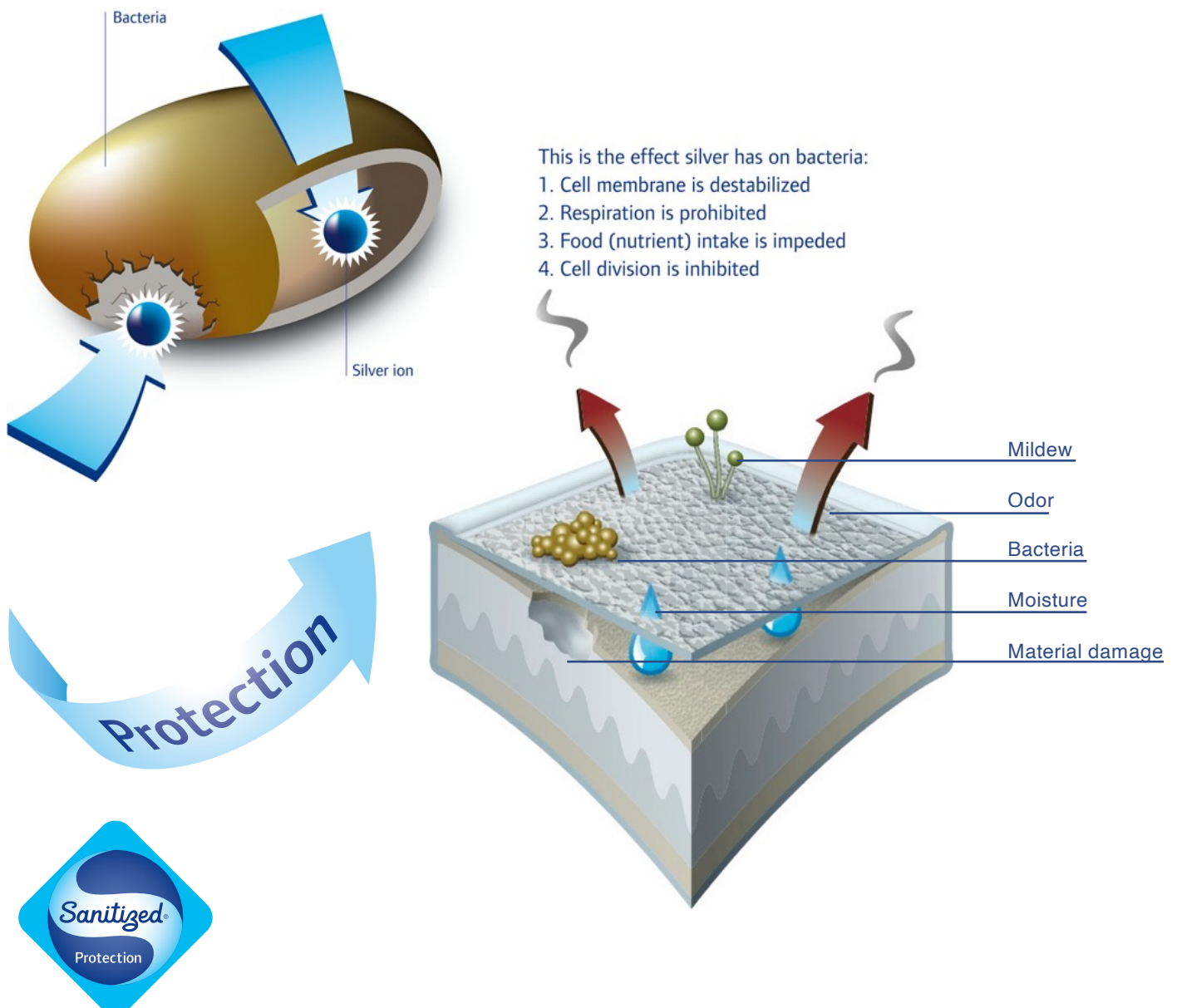
Leonica Genuine Leather for public spaces and mass transport vehicles, have always an invisible protective coating barrier with excellent performance against cleaning and sanitizing products.

Now we take a step further in the battle against bacteria offering an OPT antimicrobial treatment with [Leonica Genuine Leather](#)®

In collaboration with SANITIZED AG, a Swiss company specialized since 1935 in antibacterial and antimicrobial treatments, we have developed a treatment for our [genuine leather for public spaces, transport, home furniture and leatherware](#).

The Sanitized® additives are integrated in the leather during the manufacturing process. The antimicrobial active ingredients of Sanitized® effectively prevents the spread of bacteria and provides long-lasting protection for the leather.

The inherent antimicrobial protection, a silver ions based agent, prevents the growth of both gram-positive and gram-negative bacteria. Since silver ions do not readily evaporate nor dissolve the efficacy will be long-lasting. Sanitized® T 11-15 acts on the bacterial cell membrane, which inhibits function of the microorganism and blocks the respiration and vital food intake of bacteria.



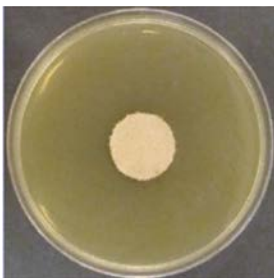
# Reduction of microbial growth



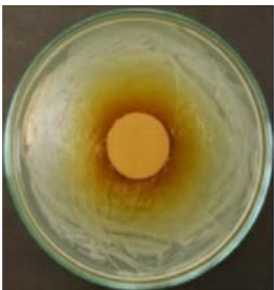
Leonica Genuine Leather<sup>®</sup> treated with antimicrobial additive Sanitized<sup>®</sup> T 11-15 limits microbial growth and allows to reach complete protection in combination to adequate cleaning and disinfection routine.

Cleaning the surfaces includes the removal of dirt, dust and all other visible contaminations as part of the hygiene circle. Therefore the focus of the product development strategy is creating conditions where microbes can't grow, where it's not favorable for them to live.

Part of that is also an hydrophobic coating and a surface treatment that resists to disinfectant cleaning products.



Microbial growth on a antimicrobial leather Ph. E.Bielak



Microbial growth on a non microbial leather Ph. E.Bielak



Escherichia coli (gram-negative)



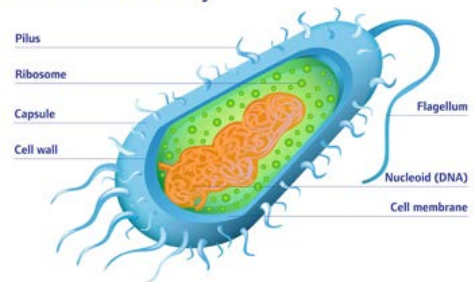
Staphylococcus aureus (gram-positive)

Materials with antibacterial properties can control the proliferation of bacteria through various mechanisms that interfere with their metabolic functions. To evaluate the antibacterial properties, materials are contaminated with a suspension of selected microbial strains and the microbial reduction is assessed after a given time of contact with the material.

Most of the antibacterial agents act on the cell membrane, which is the organ through which bacteria perform important metabolic functions.

Therefore, by testing only one strain for each of the two groups in which the bacteria are classified for the characteristics of their cell membrane (Gram + and Gram -), a good indication of the effectiveness of an antibacterial agent on a broad spectrum of bacteria can be obtained.

## Bacteria Cell Anatomy



## Results following Test Method JIS Z 2801 - ISO 22196

Group	Bacteria	Activity	Reduction in %
Gram -	Escherichia coli ATCC 8739	> 5,10	≥ 99,99%
Gram +	Staphylococcus aureus ATCC 6538P	> 5,40	≥ 99,99%



# Reduction of viral activity

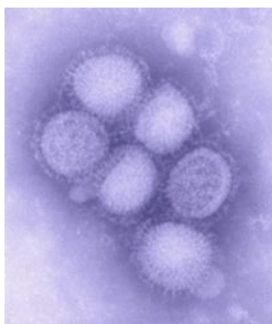
Before any product's **antiviral** properties can be claimed, viral tests must be performed of the treated articles in specialized laboratories. Compliance with local legal regulations is essential.

In order to make this claim **Leonica Genuine Leather**® has been tested by an independent laboratory in the U.S.A. in accordance with standard: ISO 21702:2019 (Measurement of antiviral activity on non-porous surfaces, including **natural** and artificial **leathers**).

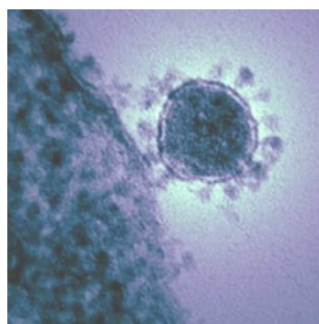
Results following Test Method ISO 21702:2019

Virus	Cell Line	Exposure Time	Reduction%
Influenza A virus (H1N1) ATCC® VR-1469	MDCK	120 minutes	99.00%
Human Coronavirus 229E ATCC® VR-740	MRC-5	120 minutes	99.00%

*Reduction calculated based on the infectivity titer of viruses recovered from control glass samples after 24 hours of contact time*

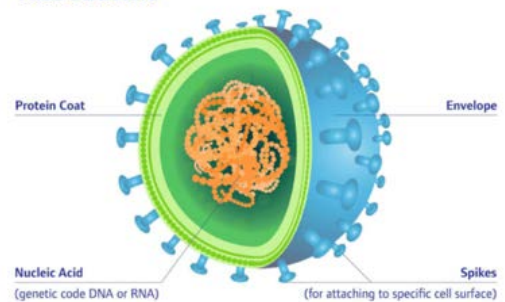


H1N1 influenza virus Public domain Centers for Disease Control - CDC Influenza Laboratory



Human Coronavirus Public domain National Institutes of Health (NIH)

## Virus Structure



**Leonica Genuine Leather**® becomes an important piece of equipment that contributes to comprehensive hygiene management. in healthcare at hospitals, in care facilities and retirement homes, public spaces and transportation.

Reducing the amount of bacteria, microbes, and now viruses, is a feasible way to help stem the spread of infections. Not every infection occurs as a result of droplets or the coughing of another person. Hands and surface contact also play a key role in transmitting infection.

Surfaces with high contact frequency with permanent antimicrobial and antiviral protection are an important supplementary hygiene measure to interrupt the chain of infection. Hygiene is thus boosted, even between disinfection and cleaning cycles.

Compliance with local legal regulations is essential, therefore check with your local authorities before making antiviral claims.



# Data

Product – OPT	<b>Leonica Genuine Leather</b> ®
Active Ingredient	Sanitized® T 11-15 bounded silver ions based agent
Effect	Built-in Sanitized® material protection. Improved durability, performance and aesthetics. Microbial aggressors like bacteria, mold & mildew, algae, stains don't have a chance. Reduced material degradation.
License	1996.20
Safety	All products used by SANITIZED AG have official and country-specific approvals from the respective regulatory agencies.
EPA	The Environmental Protection Agency (USA) issues permits for active ingredients that benefit the environment and do not harm human health.
BPR	Biocidal Products Regulation on the provision of biocide products in the market and the use of biocide products in the European market
BPR -T9	Used for the preservation of fibrous or polymerized materials, such as leather, rubber or paper or textile products by the control of microbiological deterioration. This product-type includes biocidal products which antagonize the settlement of micro-organisms on the surface of materials and therefore hamper or prevent the development of odor and/or offer other kinds of benefits.
Approved by	Sanitized® active ingredients are approved by Allergy UK - bluesign® - OEKO-TEX - Responsible Care
Sustainability	Sanitized® is incorporated in the cross section of the leather and additionally also into the top coat finish, protecting the leather during the entire product life cycle. The active ingredient Silver ions is not released into the environment and is Environmentally safe.
Maintenance & Efficacy	Silver ions do not readily evaporate nor dissolve the efficacy will be long-lasting without any need to repeat or apply active ingredients to maintain efficacy.
Compliance	Silver ions not to be confused with nano-silver which has been shown to leach out, contaminating other surfaces and can be absorbed into the human body.
Care	Antimicrobial protection does not replace regular cleaning and disinfection. Manufacturers recommended guidelines for cleaning must be followed.
Sanitized® Label	Sanitized® BPR conform hangtag and Product labeling The easiest solution to meet all BPR requirements!



# Sanitized® EU - BPR Compliant labelling

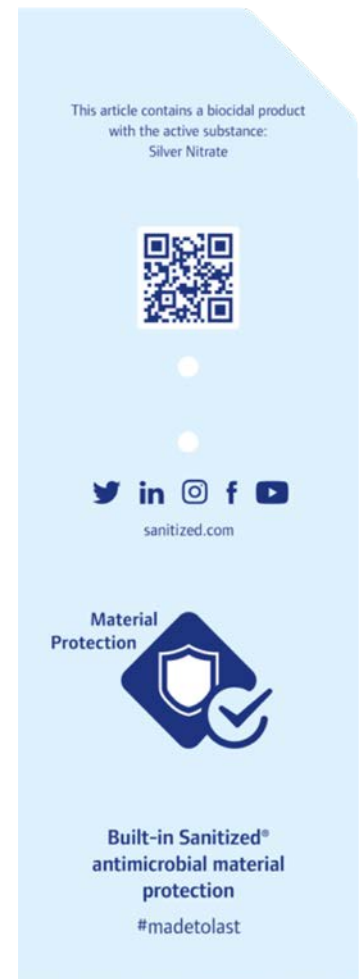
The easiest solution to meet all BPR requirements!

## Label or packaging contains the following information:

1. A statement that the treated article incorporates biocidal products; = **Contains biocidal product with active substance**
2. Where this is substantiated, the biocidal property attributed to the treated article, Claim = **Antimicrobial**
3. The name of all active substances, which are contained in the biocidal products; = This article contains a biocidal product with the active substance **Silver Nitrate**
4. The names of all nano materials contained in the biocidal products, = Sanitized® has no products with “nano” material.

Regulation vary from country to country, please check with local authorities to understand the requirements.

SANITIZED AG Regulatory department is available for support and advice.



# Best Hygiene and Protection for every environment and leather item.



Air	First, BC, PEY and EY classes Business Jet
Rail	Passenger seats in all classes Driver seats Sleeping Car, Wagons-Lits
Sea	Cruise boats Yachts & Tenders
Road	Automotive Bus & Coach Motorhomes, Camper & Caravan Executive Vans
Public area's	Auditoriums Theaters Concert Halls Cinemas Museums Passenger Terminal seating Business Lounges
Hospitality	Hotels - Resorts Restaurants
Work & Office	Operator and Executive seating Corporate offices Meeting rooms
Healthcare	Healthcare - Hospitals and clinics Elder homes - hospice -nursing homes Relax armchairs
Wellness	Wellness & Spa Beauty Salon Hairdresser salon
Living	Sofas, armchairs, chairs Beds and headboards
Fashion	Purses & bags Personal items



#### Disclaimer

The information in this guideline is based on our knowledge and interpretation at the time of publication. SANITIZED AG accepts no responsibility or liability whatsoever arising out of, or in connection with, the use of this guidance document. The information that SANITIZED AG provides is largely of a general nature and is not intended to address the specific circumstances of any particular individual person or entity and the information is not provided as professional or legal advice. SANITIZED AG cannot and does not guarantee that mentioned document or links mentioned in this guideline reproduces an officially adopted text precisely. In case of disagreement, the text of the Official Journal shall always prevail. Sanitized® is a registered trademark of Sanitized AG - [www.sanitized.com](http://www.sanitized.com)



CONCERIA LEONICA SPA  
Via Rio Camparolo n. 4/B  
36045 LONIGO (VI) - ITALIA  
Ph. +39 0444 830644  
[info@leonica.it](mailto:info@leonica.it)  
[www.leonica.com](http://www.leonica.com)

