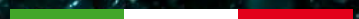
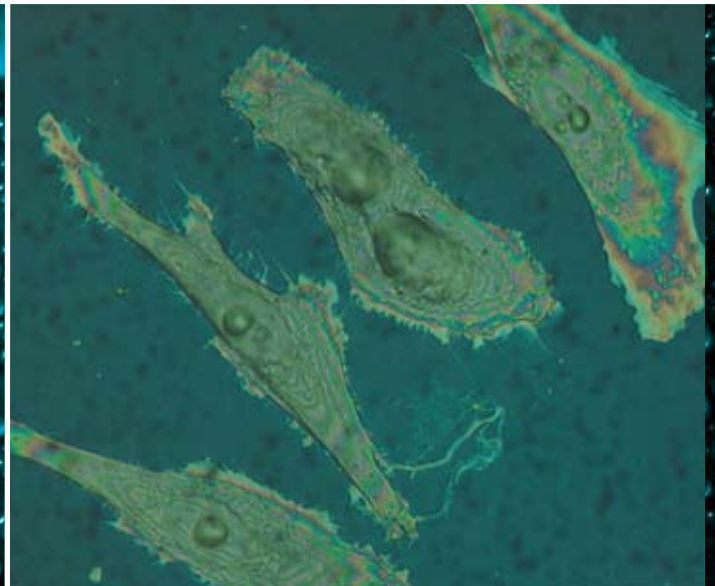




KW Antibacteria





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KW Apparecchi Scientifici Srl contributes to safety and contamination prevention requirements

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Laboratory managers and operators can get a lot of help from appliances that contribute to reducing the risk of bacterial contamination, both among the samples stored in refrigerators and freezers and from the samples to operators and the outside environment.

The correct storage of samples is an essential part of the safety procedures in the use of laboratory refrigerators and freezers.

The humidity and environmental temperature conditions encourage the proliferation of bacteria and fungi. This is why micro-organisms find an ideal habitat in refrigerators.

Negative effects:

- Hygiene, health and appearance;
- Proliferation of infections;
- The proliferation of micro-organisms, correlated with the growth of bacteria, fungi or the formation of moulds cause an acceleration of the degradation processes, also harming the other laboratory activities;
- Often the presence of bacterial colonies occurs with the release of unpleasant smells;
- Deterioration of the surfaces (cracks, slippery surfaces, etc.)

This leads to the need for **Antimicrobials**, substances that act effectively against the growth of unwanted micro-organisms (bacteria, fungi, etc.), especially inside refrigerators and freezers (biomedical and agri-food sectors).

A considerable contribution is given by **KW Apparecchi Scientifici**, which, in addition to the extensive use of AISI 304 and AISI 316 stainless steel, is starting to introduce the use of internal surfaces made with **materials produced with modern processes and antibacterial technologies in its appliances**.

Inorganic antimicrobials: are antimicrobial active principles formed of substances containing silver in anionic form, anchored on inorganic compounds that have the task of regulating the diffusion of the ions within the mass.

The use of inorganic antimicrobials is very safe, in fact they are not toxic, not inflammable, not corrosive and do not adversely affect the transformation process.

These materials, which form the internal surfaces of KW appliances, have a permanent antibacterial action (throughout the useful life of the product) and they help to effectively counter the reproduction of colonies of bacteria, fungi and contaminating micro-organisms.

These materials are compatible with most of the additives used in plastic materials as stabilisers, antistatic and anti UV. **They are suitable for contact with food (FDA). They have an excellent environmental impact, because they are recyclable thermoplastic materials. This integrates all the correct practices for cleaning and maintenance of the storage environments.** So it is possible to considerably increase the storage quality of biological materials and samples in laboratories, therefore helping to significantly reduce the "risks of contamination" and, consequently, at the same time improve the performance rates and reliability (thus also the efficiency) of the laboratory results.

These solutions help to considerably limit contamination events "by" and "among" sensitive materials like blood, biological samples, perishable materials, tissue or organ samples, etc. ... and add a further barrier against the proliferation and uncontrolled propagation of colonies of micro-organisms.

The KW products made with this technology are those belonging to the "Medical Project" series of the KBSR, KBPR and KBBR families with thermoformed internal walls.

KW is also working on repainted or plastified steel sheet materials used in the internal parts of various series: KLAB, WRC, etc. These materials (in the form of slender film or paint placed on the steel sheet) possess antimicrobial properties, as they induce a reduction of microbic vitality with % > 99%, in accordance with ISO Std. 22196:2007.

All KW products with the above-mentioned features bear the following brand



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KW APPARECCHI SCIENTIFICI s.r.l.