

An effective tool for the control of hygiene



ENVIRONMENT
FRIENDLY PRODUCT



BioFinder

The innovative solution for the detection
of biofilms and contamination on surfaces

(●)
itram[®]
higiene

The presence of biofilms in industrial working surfaces within processing operations is the **main cause** of contamination of the final product.

Biofilms are groups of microorganisms attached to surfaces which produce a number of extracellular polymeric substances (EPS) that protect them from adverse environmental conditions.

EPS make microorganisms resistant and form a barrier against conventional cleaning and disinfection procedures, making it more difficult to remove the biofilm. Biofilms easily develop in hydrated environments, with a source of carbon and nutrients such as nitrogen, phosphorus and potassium, among others.

DETECTION OF BIOFILMS

Biofilms are invisible to the naked eye, but they **can be detected**.

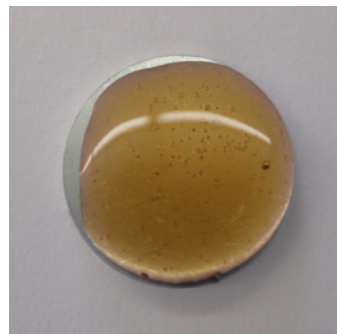
ITRAM HIGIENE has developed BioFinder, an innovative solution for the detection of biofilms in open surfaces and an effective tool for hygiene monitoring.

BioFinder reacts in the presence of biofilms

You can immediately spot any contaminated areas by a simple visual inspection just after spraying BioFinder on the facilities' surfaces.



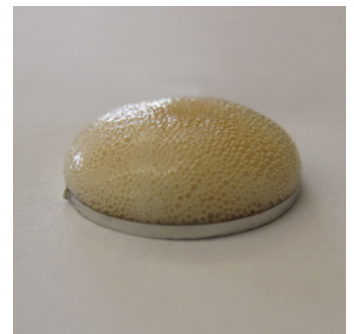
1.
Stainless steel surface moistened with water.



2.
Negative reaction after using BioFinder on a non-contaminated surface.



3.
Positive reaction after using BioFinder on a surface contaminated with biofilms.



3b.
Side view of a positive reaction after using BioFinder on a surface contaminated with biofilms.



BioFinder offers a series of **significant advantages** over other detection methods.

- It's a quick and affordable technique.
- It simplifies monitoring processes in surface hygiene.
- It can treat large areas with its formula and packaging types.
- It doesn't stain or leave residues on surfaces due to its high water solubility which aids in rinsing.
- Thanks to its simple application and response type, handling by technical staff is not required.

BioFinder has been tested on the most relevant microorganisms found in the food industry. From a microbiological standpoint of **food safety**: those capable of generating foodborne disease outbreaks such as *Listeria monocytogenes*, *Salmonella* spp., *Escherichia coli*, *Staphylococcus aureus* and *Cronobacter sakazakii*. From a **technological** standpoint: spoilage flora that can affect food product shelf life mainly as *Pseudomonas* spp.

Biofinder is effective in detecting monospecies and multispecies biofilms, i.e. biofilms formed by only one type of microorganism, and those consisting of two or more species.

REMOVAL OF BIOFILMS

Enzyme based products.

ITRAM HIGIENE has developed an enzyme based range of products which currently are the most effective solution for the removal of biofilms, as they work specifically on EPS.

BiôCip **TensiôCip** **BiôJet** **EnzyJet^{PLUS}**

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DESCRIPTION

Biofinder is a specialized product for the detection of biofilms and surface contamination in the food, pharmaceutical and restaurant industries to aid in hygiene control; it is especially recommended for open surfaces.

CHARACTERISTICS - APPLICATIONS

It reacts to detect the group of microorganisms attached to surfaces, called Biofilms. It immediately reveals contaminated areas by **simple visual inspection**. It can be applied to the most commonly used surfaces in the food industry, such as stainless steel, polypropylene and epoxy-coated surfaces.

Biofinder has advantages over other methods, with time and cost reduction being the most significant ones. It simplifies monitoring surface hygiene of industrial processes. Its formula and packaging type make it possible to treat large areas. It doesn't stain or leave residues on surfaces due to its high water solubility which aids in rinsing. Thanks to its simple application and response type, technical staff is not required for handling. **It is not considered hazardous to the environment**, according to current legislation.

Its Formula is registered in the Spanish Patent and Trademark Office.

PHYSICAL AND CHEMICAL PROPERTIES

Viscosity: 300 – 500 cP

pH: 4,5 – 5,5

Appearance: Orange, crystalline liquid

COMPOSITION OF INGREDIENTS:

See Material Safety Data Sheet (MSDS).

DIRECTIONS

Spray BioFinder gently on surfaces at a distance of 10 to 15 cm and visually inspect the surface thirty seconds after application. **A positive reaction** with BioFinder immediately produces a foaming reaction in the form of white microbubbles which clearly contrast with the product's orange original colour and thus becoming easily recognisable. The reaction is visible for at least 10 minutes, which is clearly due to its viscous nature. **A negative reaction** is the absence of production of microbubbles after a lapse of one minute, indicating no contamination on surfaces. Finally, rinse the surfaces with abundant water.

RECOMMENDATIONS

Do not dilute the product for its use. Do not shake. Apply on surfaces after cleansing and disinfection. In case of a positive reaction, repeat sanitation procedure in the affected areas. Avoid exposure to direct sunlight and high temperatures (> 55 ° C) to prevent thermal decomposition.

HANDLING AND STORING:

Store **below 20 °C**.

WARNINGS

In case of contact with eyes, rinse immediately with plenty of water for several minutes. If eye irritation persists: seek medical advice/attention. **See product safety data sheet for more information.**

PACKAGING

500 ml in poly bottle (cardboard box 3 bottles).