



Bactiscan™

BACTERIA AND BIOFILM
DETECTION IN PROCESS PLANT

BACTISCAN™ IS A PORTABLE LIGHT SOURCE WITH VARIOUS WAVEBANDS TO ENABLE VISUAL EXAMINATION POST C.I.P.

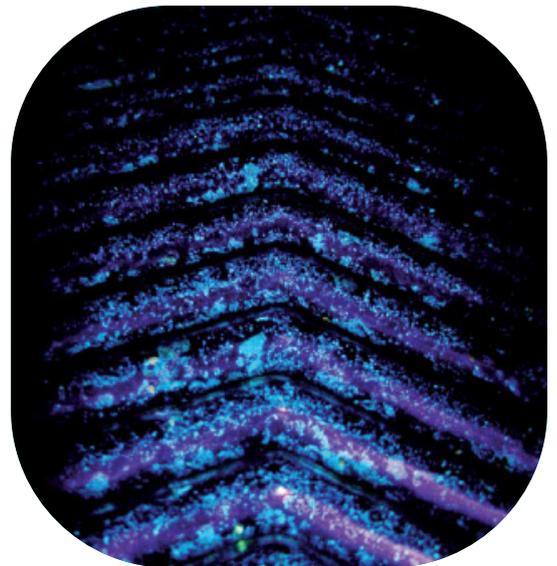
Bactiscan™ is the trademark used for a testing system, developed by us, to enable the on-site examination of tanks and vessels and pipe-work, primarily in the liquid food processing industry.

Microbial colonization of surfaces (biofilms) has been documented in many environments. Researchers have suggested that biofilms may be a source of contamination in food processing environments.

Biofilm formation will occur on solid surfaces in contact with a liquid. Organic and inorganic material in the liquid form a sediment onto the solid material. Subsequently, biologically active microorganisms will be attracted to this conditioned surface and adhere to it. The microbial cells will initiate growth, form an attachment matrix and develop into a complex community forming a microbial biofilm. Such microbial biofilms are common on solid surfaces in contact with many different kinds of liquids, fresh water, sea water, oil, milk and so on.

Currently, Lab technicians are required to climb into processing tanks after CIP (clean in place) chemical cleaning, and take small swabs of the surface to ensure that the CIP system has removed the said biofilm from the surface, before the next product enters the tank to start the process again.

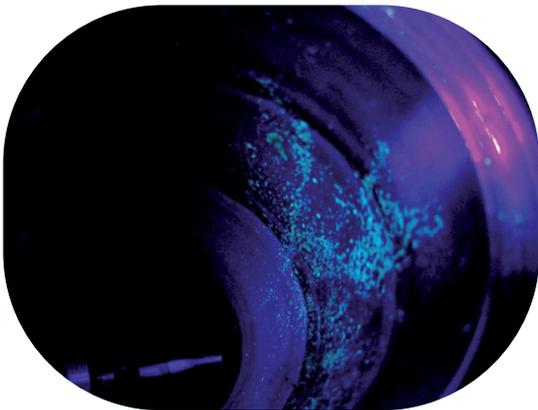
Bactiscan™ can identify the location of Bio films, mold, bacteria, and many other contaminants. Many times there is a contamination in an area such as vessel walls, filling machines, water or product tanks, pipes etc. but it may not be clear where it is coming from. Bactiscan™ can help determine the location of contamination and make the remediation job easier. These professional lamps are designed to display a small number of narrow waveband light in long wave frequencies. The high intensity radiation emitted from these lamps enables the operator to view large areas at long distances, for example looking at contamination at the top of a tank, when standing at the bottom. This radiation is a natural component of the electro magnetic spectrum with high energy levels and wavelengths.



Biofilm detected on the exchange plates of a heat exchanger

Some bacteria fluoresce under high wavelength light, and it is possible to view some bacteria in this way, Bactiscan™ has taken this one step further and using a unique wave alternating system, we are able to view bacteria such as Salmonella, ecoli, and many others without the use of any consumables, watching the proteins fluoresce in front of your eyes.

EIT International have carried out a number of on-site validations of this system at dairy, cheese, brewery, soft drinks locations and have detected a variety of problems in many types of plant, for example Listeria in the picture below.



Biofilm detected in piping.



Factory production tanks

LICENSE:

When we started business with this system, we offered a service for our technicians to carry out Bactiscan™ tests of areas within a processing facility, and it quickly became evident that processors required this service more frequently and on an ad-hoc basis, so we now license to the end user. Payment terms are 12 months n advance. There is a short training program to enable the end user to operate the equipment, then, he is able to easily identify his problems in real time. The license agreement lasts for a 12-month period; equipment is then returned to UK for calibration and upgrading to the latest technology before re-licensing for another year

ZONING:

The test equipment is zoned and GPS monitored for specific regions to ensure control and validations are not breached. When hiring your equipment from EIT International you must identify the required area for usage by post code or longitude/latitude.

Yoda Health & Environmental Solutions LTD. is registered in the Republic of Ghana under number CO060905654 and the Federal Republic of Nigeria under number1801857.

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