



Company profile

BioVisible:

BioVisible is an ISO 9001:2008 certified company specialized in fast detection and identification of micro-organisms using molecular biological techniques. The company is specialised in the detection and identification of micro-organisms with molecular biological techniques and supports the molecular microbiological screening programs of industry and institutes with applicative research and the production of tailor made diagnostic tests.

- **FISH**- Fluorescence In Situ Hybridisation
- **qPCR**- Quantitative Polymerase Chain Reaction
- **T(D)GGE**- Temperature (Denaturing) Gradient Gel Electrophoresis

Core technologies:

The core technology is focussed on RNA/DNA hybridisation and amplification techniques and specifically 16S and 23S rRNA probes and primers for rapid taxonomic identification of micro-organisms.

The following activities belong to the core business activities of BioVisible:

- (1) Client specific research activities on contract basis
- (2) Development and sales of molecular, biological testkits, -systems and products for the detection and identification of micro-organisms.
- (3) Routine analysis for third parties.
- (4) Client specific implementation of developed tests & training.

R&D on Microbial Diagnostics

Our unique concept:

BioVisible is unique in high-throughput applications, although lower-volume specialities can be developed. Ribosomal RNA probes for micro-organisms can be developed on request by our R&D unit. Customised diagnostic developments from our R&D facility are subjected to rigorous validation procedures. The close contact between R&D and Manufacturing in our organisation ensures a short product-release time. Diagnostic Research by BioVisible is driven by the demand of key-customers in core markets. The most suitable technology is selected for each program, based on specifications such as volume, speed and resolutions.

BioVisible operates in various markets:

- Food/ Feed Diagnostics**
- Human Diagnostics**
- Environmental Diagnostics**
- Veterinary Diagnostics**



Ribo Technologies® Testkits

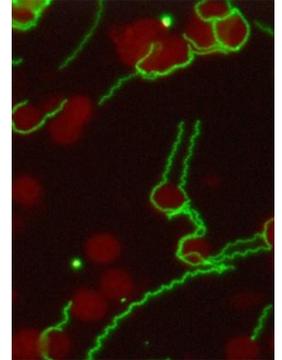
BioVisible sells molecular, biological testkits under the name RiboTechnologies with world-wide sales. Focus areas are intestinal micro-flora diagnosis, sepsis and environmental diagnosis. New products are developed in-house and in close cooperation with international universities and innovative companies in order to rapidly expand our business. RiboTechnologies has direct sales and a worldwide network of distributors.

FISH kits:

The FISH-kits is an easy to use, validated test developed for the detection of bacteria in the matrix.

The advantages of the FISH-kits:

- **Easy to use protocols**
- **Rapid results**
- **Strong signal**
- **Validated controls**
- **Convenient storage**

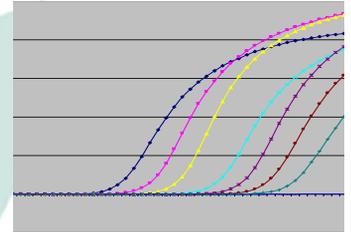


CE : Our FISH kits for In Vitro Diagnostics have a CE mark.

Scan-kits:

Our Real-time PCR (qPCR) kits gives you fast and quantitative results and is applicable for all Real-time PCR systems.

All Scan-kits contain oligonucleotides (forward and reverse primer), a Fluorescent probe (Taqman probe or staining) and in most cases an internal control. The Scan-kit ParaScan is the only kit which includes an Isolation kit.



Note: A Master-mix including dNTP's and polymerase is NOT included, as our Scan-kits are universal for all Real-time PCR systems.

The advantages of the Scan-kits:

- **Speed**
- **Sensitive**
- **Specific**
- **Universal for systems**

Matrix:

BioVisible has experience with many kind of matrices. Depending on the technology of the test we develop or use knowledge to pre-treat samples of difficult matrices. In some cases this would only be one or two simple steps added to the protocol, in other cases (Scan kits) you need an DNA isolation before starting with our testkits.



Analyses services

BioVisible operates a Molecular Diagnostic Centre where a variety of rapid analyses can be performed.

This World Wide Service Offers:

- Advanced molecular microbial diagnostics
- Fast analyses, fast report
- Personal communication
- Large scale analyses possible
- All tests are performed by high qualified personnel

Two programs are offered:

Intestinal microflora

The intestinal microflora is a complex ecosystem containing many bacterial species. This microflora is essential for our health and well-being. Antibiotics, stress and unhealthy eating habits can have dramatic effects. Therefore exact knowledge of the composition and nature of this intestinal microflora is of great importance. Applications can be found in the field of functional foods and feeds as well as in the field of pharmaceutical industry to study the effect of newly developed drugs on intestinal flora.

Water

BioVisible has developed and used an advanced DNA-testkit for the detection of *Legionella* bacteria. The **QuickScan (qPCR)** supplements and improves the shortcomings of the current NEN6265 plate count method for the detection of *Legionella* bacteria with regards to speed and reliability. The NEN6265 is the accredited method for legionella detection. The Dutch Ministry of VROM (public affairs) granted permission to use the QuickScan for the release of contaminated sites. The *Legionella* fast service is a combination of the rapid QuickScan (results in 1 day) and the NEN6265 (results in 12 days).

This service incorporates the speed and reliability of the QuickScan and the accredited NE6265 method. This document is meant to provide background information regarding the *Legionella* fast service as it is performed by BioVisible. It is important that the customer can choose between the different techniques and is informed about interpretation of the results and the positive benefits of our fast service.

A new service which is offered by BioVisible is detection of *Legionella* using the **FISH technique**. In this procedure the *Legionella* bacteria are grown on *Legionella* specific plates for 1 day. The resulting micro-colonies are then stained with a *Legionella* specific probe which makes the *Legionella* bacteria fluorescent. These fluorescent bacteria can then be detected using a fluorescence microscope. The whole procedure takes less than **24 hours**. This technique combines the traditional growth of *Legionella* bacteria on plates with the speed and accuracy of modern molecular detection techniques.

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