

Rapid Testing Solutions for the Dairy Industry

Testing raw ingredients and final products is of significant importance in the dairy industry, both for regulatory and quality purposes. Guaranteeing the production of safe milk also remains of a top priority, whilst consumers demand quality dairy products with a reasonable shelf-life.

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Contamination is a kigh risk in the dairy segment. Mycotoxin-contaminated feed given to lactating cows will result mycotoxins in milk and its products, posing a serious health risk for consumers.

Additionally, there is a high risk of allergen cross-contamination between dairy products and non-dairy alternatives (vegan drinks, soy yogurt, etc.), as these are sometimes manufactured in the same factory.

Diagnostic solutions for food pathogens, aflatoxins, allergens and veterinary drug residues doesn't need to be expensive or time-consuming. Testing options include both in-house solutions and tests that can be carried out on site to reduce both costs and time to results.

Dairy industry value chain and applicable Gold Standard Diagnostics testing kits



Control the quality of feed for more optimal milk processing, safety and quality

Dairy cattle feeds are extremely susceptible to mycotoxin infection and contamination during harvest, production, processing, and storage. Once cattle have been fed with aflatoxin B1 contaminated feed, liver enzymes transform it into aflatoxin M1.

Specific ELISA test kits for the rapid quantitative detection of aflatoxin B1 in cereals, high moisture corn, silage and mash, feed, nuts, dried fruits, cottonseed and soybean meal.





Monitor animal health to prevent outbreaks

In industrial livestock production, operating conditions are optimised to achieve the highest production output while minimising costs. The emergence of infectious diseases is a major risk, and therefore disease prevention and control measures are essential.

Detecting and monitoring epidemiological risks with the broadest range of ELISA, PCR and lateral flow test kits for cattle on the market.

Cheese production

Detect the presence of bacterial pathogens

From raw materials to tanks, presses, brushes and final products, cheese production is susceptible to the growth of bacterial pathogens, which can lead to outbreaks and product recalls resulting in severe public health concerns, as well as financial and reputational damage.

BACGene Salmonella, Listeria spp & Listeria monocytogenes and E.coli 0157:H7 test kits are AFNOR certified PCR assays and provide PCR plates ready to use. The process includes an optional step to eliminate free DNA.

Check aflatoxin M1 level to avoid contamination in the finished product

Testing milk prior to cheese production supports the efficiency of the cheese making process and prevents aflatoxin M1 enrichment in the finished product. Even if the raw material, i.e. milk, is tested, it is strongly advised to also run in-house screening on cheese, firm-cheese, mozzarella cheese, sour cream, butter and yoghurt samples.

The higher the cheese value, the higher the benefit of testing in-house with the robust and reliable ELISA test kit I'screen AFLA M1.

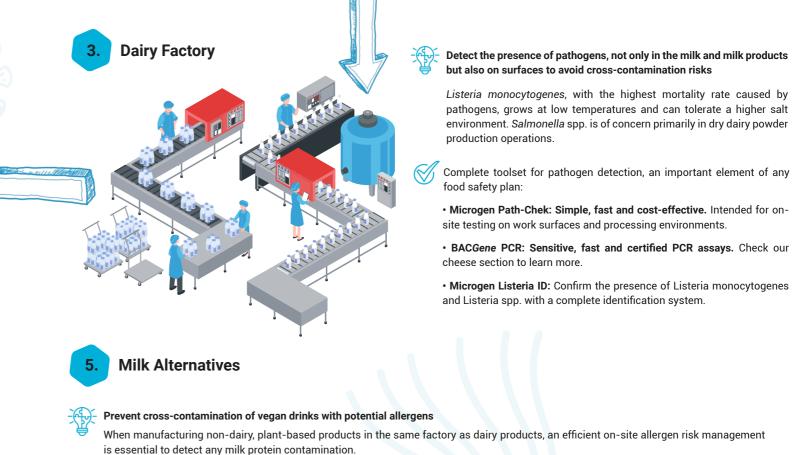


Check the content of aflatoxin M1 in milk provided by individual farms

benefits to testing the samples from individual farms, in order to monitor each level independently. MILK FACTORY

ELISA kits suited for different needs:

- · Master-curve calibrated ELISA with no physical calibrators and no hidden costs
- bovine milk, skimmed milk and powdered milk.
- The immunoassays can be run manually or with the support of a walk-away automatic analyser.



SENSIStrip Allergen lateral flow devices, designed for screening or even quantifying allergens at any location of the production site, are perfect tools to detect potential contamination in a very quick and easy manner. The RapidScan ST5-W Lateral flow reader is a portable instrument used for fast and accurate LFD analysis.

Although a batch of raw commingled milk might be compliant with regulation in terms of the concentration of aflatoxin M1, there can be significant



• The highest-performing most sensitive and most accurate system is I'screen AFLA M1 Milk for the quantitative analysis of aflatoxin M1 in raw



\in Obtain fast and reliable quantitative results for contamination analysis

Manual ELISA assay implementation is simple, however accidental mistakes may happen and the work pressure on laboratory personnel can be high in certain periods. Improving lab efficiency and minimising overall costs require automation solutions.

Fully automated walk-away instruments to simplify lab experience

The Bolt[™] and ThunderBolt[®] ELISA analyzers are smart, compact, and highly precise open systems that are able to automatically manage all the steps of any plate-based assay, from premixing to final data handling - just load and walk away!



On-site contamination control at different stages of the manufacturing process

Fast on-site checking of potential cross- contamination with food allergens helps to avoid external analyses and enable quick intervention if needed. The quick testing process does not require trained staff, however visually interpreting the intensity of the test line on the strip can lead to potential errors.

Portable reader providing semi-quantitative results

The RapidScan ST5-W lateral flow reader is specifically designed for field and in-process testing applications requiring qualitative to semi-quantitative test results. This portable instrument is a highly flexible, easy to use and accurate imaging platform used for lateral flow assay analysis, compatibile with Gold Standard Diagnostics' allergen lateral flow tests.



