



Unlocking the untapped potential of your *Listeria monocytogenes* monitoring

There's a new kit on the block. Swiss startup NEMIS Technologies AG specialises in the development of simple, safe and on-site pathogen testing solutions. Its detection test for *Listeria monocytogenes* is already commercially available in Switzerland and France.

LISTERIA MONOCYTOGENES is among the leading causes of death from foodborne illness with a 15 to 30 percent mortality rate. While the disease is quite rare, many types of food processing operations are vulnerable to the organism, which has its natural home in the soil and on the crops upon which animals graze.

As a significant number of foodborne-related outbreaks of Listeriosis were traced back

to locations in production facilities, environmental monitoring has received increasing attention in recent years; cross-contamination remains one of the most significant risks for food producers.

It is well established that *Listeria monocytogenes* can become firmly embedded in equipment and survive easily in the factory environment, contaminating raw ingredients and finished products alike.

Listeria monocytogenes exhibits a high salt tolerance and can survive in temperatures below 1°C. Unlike many other pathogens, it can also grow in these conditions and is thus notable for its persistence in food manufacturing environments. However, it is a poor competitor and rarely found in conditions where other pathogens flourish. Therefore, some indicators of 'poor hygiene' may not always be a good predictor of its presence.

With N-Light™, You Are in Control



N-Light™ User Protocol

To fully assess and effectively manage this invisible threat, the precise locations of *Listeria monocytogenes* must be understood and frequently monitored. While end-product testing remains a regulatory requirement, environmental monitoring targets the root cause before lasting damage can occur to the company's reputation and bottom line.

Your tool of choice for more effective 'seek and destroy' risk management

N-Light™ *Listeria monocytogenes* is a qualitative test method for the rapid detection of the foodborne pathogen in food processing areas and equipment as part of an environmental monitoring programme. It is

designed to free you from the constraints of laboratory infrastructure and the dependence on external partners as it enables safe on-site testing at any time by anyone. The short time-to-results allows for immediate corrective actions.

Unlocking the power of mass testing

The probability of detecting an existing pathogen in the factory environment is often grossly overestimated. The number of possible locations is infinite, and most producers will not even come close to swabbing one percent of their factory within one year. The competitive pricing of NEMIS' test kit allows for an increase of the testing volume within the existing budget, resulting in statistically higher chances

of finding the pathogen before it can cause lasting damage.

Addressing your specific and immediate needs

Whether you rely on an external service or use an in-house laboratory, the N-Light™ *Listeria monocytogenes* offers both a competitive and complementary value proposition. Results from external laboratories may take up to five days to obtain, a time frame in which NEMIS' rapid test allows for corrective actions to be taken after only 24 hours and another re-testing if feasible. As the test detects only living bacteria, it provides a powerful complementary approach to any PCR testing programme. Moreover, because the test can be performed on-site without formal training, the number of samples and timing can be chosen flexibly according to specific and immediate needs.

Get in touch with us today and take back control of your schedule, priorities and budget. ☑

Costs	N-Light™	External Laboratory
Time/ test (min)	4 min	
Labor costs/ test (CHF)	2 CHF (Annual salary 70'000 CHF)	
Material costs/ test (CHF)	7.50 CHF	
Total costs/ test (CHF)	9.50 CHF	35 - 45 CHF
Capital costs	2'880 CHF	0
Shipping costs/ week	0	100 CHF
Number of tests for budget of 20'000 CHF (year 1 +2) from year 3	1'802 2'105	328 - 423 328 - 423

Cost comparison N-Light™ vs. external laboratory



For further information:

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