



PERFORMANCE TESTED
AOAC
RESEARCH INSTITUTE
LICENSE NUMBER 060401

Singlepath[®] Salmonella

For the rapid detection of Salmonella in food



Singlepath[®] Salmonella

Salmonella spp. is one of the most common causes of food poisoning worldwide. With an estimated volume of 32 million tests a year, it is probably the food pathogen most frequently tested for. *Salmonella spp.* have been isolated from most types of raw food (meats, eggs, as well as plant products), and their high resistance to drying combined with a very high heat resistance once dried, makes *Salmonella* a potential problem in most foods, particularly in dry and semidry products.

Currently, the most commonly used techniques to test for *Salmonella* in food products are traditional methods based on culture media. Reference methods for the isolation and identification of *Salmonella* are published by national (AFNOR, AOAC, DIN, FDA-BAM, USDA, etc.) and international (ISO) committees and organisations. Screening for the presence of *Salmonella* in food products by conventional reference methods is time-consuming and labour-intensive. It usually involves a 3-step technique: non-selective pre-enrichment (18-24 h), selective enrichment in two different selective broth media (24-48 h) followed by plating on two different

selective/indicative agars (24-48 h). The whole procedure takes a total of up to 5 days to get a simple yes/no result. For products where a positive release system is important, this means a delay of 5 days before those products can be released into the market.

The requirement of food manufacturers for quicker release of finished products and for cost savings are calling for a change in these methods. Rapid methods, especially highly convenient tests like immunochromatographical one-step devices are therefore increasingly interesting to food manufacturers and distributors. The general expectation for a rapid test is to be sufficiently sensitive and specific, user friendly and cost effective. Although DNA probes are more specific than immunological tests, they do not always fulfill other relevant user criteria. Immunological tests are therefore often the preferred choice among users of rapid tests.

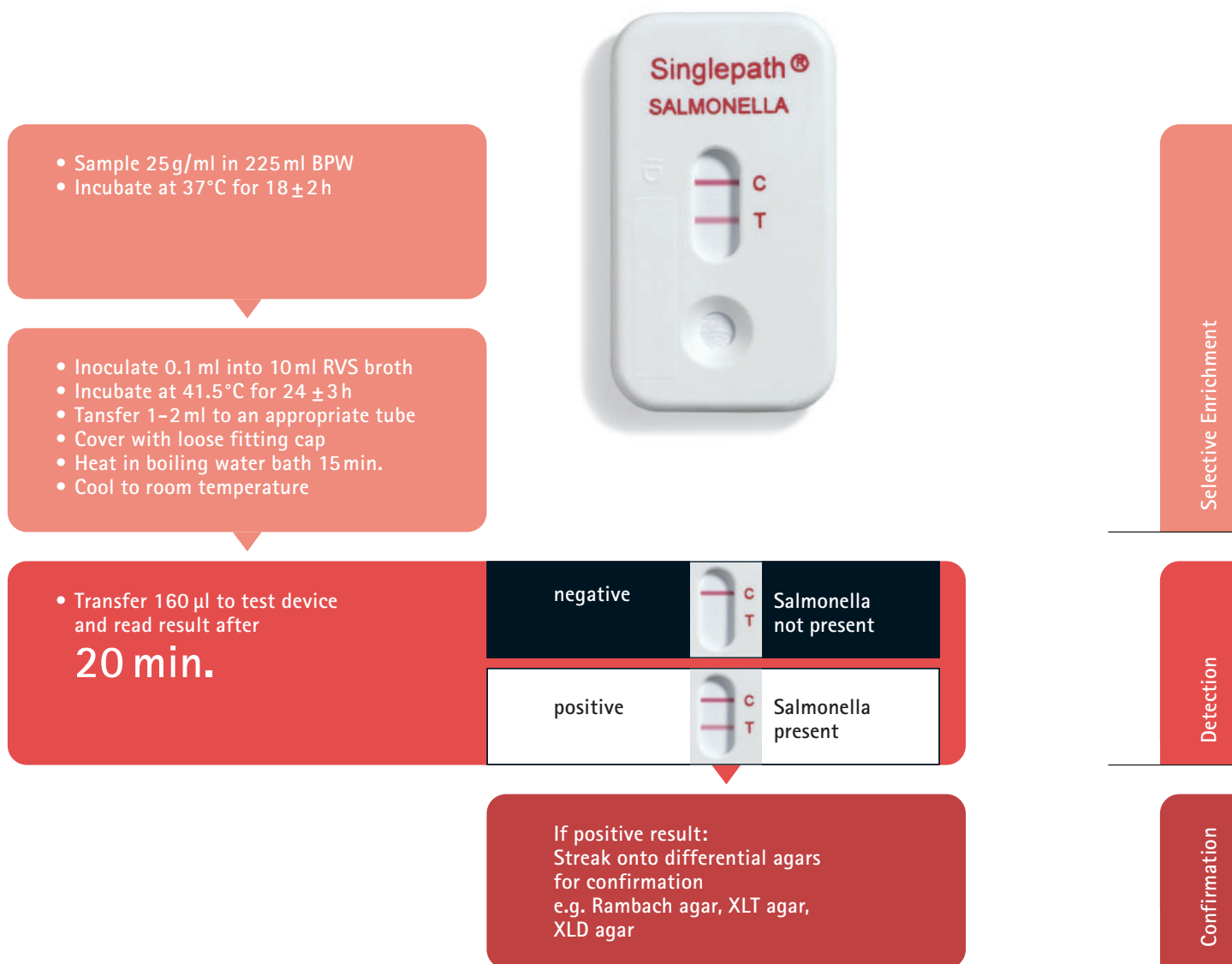
The new Singlepath[®] Salmonella immunochromatographical test offers all these benefits and makes testing for *Salmonella* fast, reliable and convenient.



Your benefits

- | | |
|--------------------|--|
| Reliable | As sensitive as the official culture media method. Provides accurate results: Sensitivity 100 % (milk), specificity 100 % (milk). |
| Fast | Result in just 20 minutes. |
| Ease-of-use | One-step format avoids working errors during handling. |
| Convenient | Simply add sample and read off the result. |
| Safe | Clear and distinct positive or negative test results with a built-in positive control. |
| Economical | Rapid results save labour and inventory costs and reduce labour-intensive plating methods. No capital investment required for example for instrumentation such as automated systems. |

Flow-diagram of Singlepath® GLISA Salmonella test procedure



Product list

Products	Pack size	Ord.No.	
Peptone Water (Buffered) (BPW)	500g	1.07228.0500	Enrichment
Peptone Water (Buffered) (BPW)	5 kg	1.07228.5000	
Salmonella enrichment broth <small>acc. to Rappaport-Vassiliadis (RVS broth)</small>	500g	1.07700.0500	
Singlepath® Salmonella	25 tests	1.04140.0001	Detection
Rambach® agar	for 1 l	1.07500.0001	Isolation media
Rambach® agar	for 4 l	1.07500.0002	
XLD agar	500g	1.05287.0500	
XLD agar	5 kg	1.05287.5000	
XLT4 agar	500g	1.13919.0500	

Lateral flow tests

For the rapid detection of pathogens in food



Same safety standard as the classical detection method:

Simple to perform, reliable results in just 20 minutes, considerable savings in time and costs.



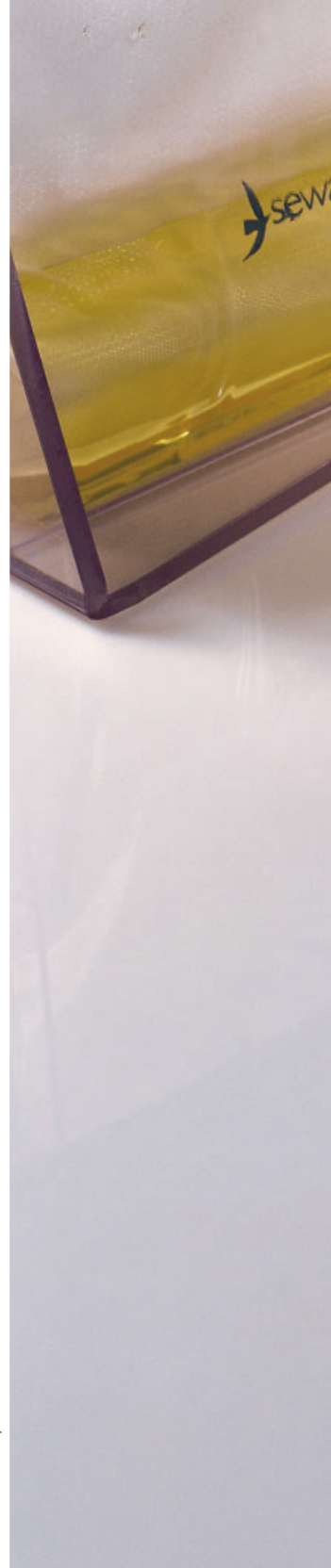
Wider product range:

Lateral flow tests detect important pathogens in food and environment: E.coli 0157, Verotoxin-producing E.coli, Salmonella, Campylobacter, Listeria, Listeria monocytogenes, Legionella and enterotoxigenic Bacillus cereus.



Additional plus:

Especially adapted media for precise and reliable results.



W/286102 05/06

Merck KGaA
64271 Darmstadt, Germany
Fax: +49 (0) 61 51/72 60 80
Email: microbiology@merck.de
www.merck.de
microbiology.merck.de

We provide information and advice to our customers to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose. Singlepath® is a registered trademark of Merck KGaA, Darmstadt, Germany.