



A NEW KYLT® PRODUCT FOR SALMONELLA MONITORING FROM FARM TO FORK: KYLT® SALMONELLA SPP. 2.0.

SALMONELLA, A PRIMARY THREAT TO ANIMAL AND HUMAN HEALTH

Salmonella are counted among the most significant infectious pathogens related to both human and live-stock health. *Salmonella* infections account for 25 % of reported human diarrhea worldwide. *Salmonella* infection is a major threat to the poultry industry, not only due to mortality and the risk of diseases, but also due to losses of productivity through infection. It is estimated that globally, *Salmonella*-related problems cause more than € 10 billion in economic losses in the food production chain and health systems.

FOOD SAFETY, FROM FARM TO FORK

Ensuring food safety is a public health priority. Thus, carrying out comprehensive *Salmonella* monitoring, by means of frequent monitoring and reliable testing, is a must. As the conventional cultural methods are significantly more time-consuming than Real-Time PCR, the latter provides an advantageous alternative for the detection and differentiation of *Salmonella*.

KYLT® SALMONELLA SPP. 2.0, (REAL-TIME PCR DETECTION KIT)

Kylt® is launched a new product on the market to support the detection of *Salmonella*: Kyt® *Salmonella* spp. 2.0. It is a detection kit based on Real-Time PCR, developed to specifically detect *Salmonella* spp. in pre-enriched samples of feed and food, as well as veterinary samples from poultry, swine, and cattle. This improved product provides higher stability of reactions, reduced inhibitions during PCR, and improved sensitivity. The product is fully compatible with most other Kyt® kits (identical temperature profile, pipetting volumes), which allows simultaneous run and improves efficacy in the lab.

HOW KYLT® SALMONELLA SPP. 2.0 SAVES TIME

Kyt® *Salmonella* includes all necessary reagents and controls to specifically detect a *Salmonella* target gene. For sample preparation from various samples, the kit can be ordered including extraction medium. The method is validated for several food and feed matrices, as well as for typical veterinary matrices like feces, dust, (boot) swabs, organs, etc. For the latter, enrichment in peptone water for only 18 ± 2 hours at 37 °C is sufficient. qPCR results can be obtained within only 1.5 hours after sample preparation.

THE KYLT® SALMONELLA SPP. 2.0 DETECTION KIT FEATURES:

- High sensitivity
- Fast *Salmonella* spp. detection
- Simple protocol, with reduced number of steps
- Short pre-enrichment protocol, also for complex matrices
- Lower susceptibility to freeze-thaw cycles during transport
- Less prone to inhibition, reducing the number of samples to be repeated
- MicroVal® 16140 validation which makes it an official alternative method to ISO 6579

THE USE OF KYLT® SALMONELLA SPP. 2.0 ENABLES:

- Less risk of errors
- Simplified lab work
- Reduced lab costs
- Higher lab productivity
- Operational time savings
- Convenience of integrated solutions
- Reliable and accurate detection results

DIFFERENT PRODUCTS COMPLEMENT THE SALMONELLA PORTFOLIO

Different products and accessories, which are designed to support RNA and DNA extraction, and purification, pathogen detection, and characterization complement the portfolio of solutions for detecting *Salmonella*.



HIGH-QUALITY TESTED AND CERTIFIED, EASY-TO-USE PRODUCTS

Kylt® products are easy-to-use and compatible with all Real-Time PCR thermal cyclers available on the market. Kylt® products are developed, validated, and manufactured in Germany, under rigorous protocols, and are put through tests in our daily high-throughput diagnostic routine laboratory, with samples from all over the world. High-quality Kylt® processes and products are certified by ISO 9001:2015. Furthermore, selected kits are MicroVal® certified, approved by the Friedrich-Loeffler-Institute (FLI) or registered in several countries.

DISCOVER A BROAD RANGE OF TOOLS TO MONITOR SALMONELLA

Tested Parameter	Art.-No	Poultry	Swine	Ruminants	Feed & Food
NEW <i>Salmonella</i> spp. 2.0	MICROVAL® n:n 31302	x	x	x	x

KYLT® PURIFICATION SYSTEM AND CONSUMABLES

Product	Content / Rxn	Art.-No
Purifier	1 unit	31436
NEW Purifier 48	1 unit	31748
RNA/DNA Purification HTP	4 × 96	31575
NEW <i>Salmonella</i> Purification HTP	4 × 96	31433
Purifier Spin Tips	5 Plates / 480 Rxn	31434
Purifier Plates	20 Plates / 384–480 Rxn	31435

If you need information on Kylt® products or services, please visit us on www.kylt.eu or contact us at kylt-DE@san-group.com

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