

OneCup

Real-Time PCR



bioanalytic

Salmonella spec.

20µl Mix, 2µl DNA - ready!

all in one cup!

www.q-bioanalytic.com



OneCup Real-Time PCR

Salmonella spec., Art.-No. QB-RTi-01



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OneCup it's so easy!

The OneCup assay comes along with a minimum of pipetting steps. Everything is included in the mix. You only need to combine 20µl of the mix with 2µl of your DNA sample and everything is ready. You have a minimum of hands-on time and you avoid mistakes during pipetting. You can run the test on all common block cycler..

Application

Detection of Salmonella in food samples and environmental samples subsequent to a pre-enrichment step according to DIN EN ISO 20837 and 20838. In combination with an appropriate pre-enrichment and DNA preparation the test complies with the official method of the German food and feed law §64. ASU L00.00-98

Test principle

The is dedicated to detect DNA of Salmonella in a sample using Real-Time PCR in compliance with the ISO method mentioned below. The kit uses the TaqMan® principle. Thus the requirements of the Standard that an amplification product has to be confirmed by a hybridization step is fulfilled. Each reactions contains an internal amplification control. Therefore, false negative results due to inhibition of the reaction can be excluded. The test included the UNG enzyme to prevent reamplification of contaminating amplicons.

Standards applied

DIN EN ISO 20838 und 20837
ASU L 00.00-98

Inclusivity and exclusivity

The test was validated with more than 50 strains of Salmonella, which were all covered by the primer and probe set. Also more that 50 non-target strains were tested negative so that there were no false positives.

Limit of detection

Using the OneCup Real-Time PCR kit a few cells 10-100 can be detected without pre-enrichment. The individual limit of detection depends on the food matrix. With a pre-enrichment of 18 hours, as it is required by ISO 20838, the absence of one cell in 25g can be assured. A single cell is growing up to billions of cells after this pre-enrichment time. However, if this growth is very slow due to sublethal damage, even 10-100 cells would be enough to be detected by the method.

Matrices tested

The primer and Probes were tested in all relevant food matrices. Many can be prepared by thermal lysis with sufficient accuracy. Those which contain inhibitors should be processed with a DNA purification kit.

We recommend our QuickBlue DNA Extraction and Purification Kit.

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