NQAC
Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Detection of *Salmonella* by IQ-Check®

Method Number: LI-00.759

Scope of Application: Raw materials, environmental, line and finished product samples.

Description: A qualitative Real-Time PCR (RTi-PCR) method, using the Bio-Rad iQ-Check® Salmonella II assay to produce next-day screening results. After an incubation in a non-selective broth, *Salmonella* DNA is extracted by the iQ-Check® Prep system, a robotic liquid handling platform and detected by RTi-PCR using the CFX 96 RTi-PCR detection system. When a positive result is obtained, *Salmonella* is then isolated and serotyped according to the procedures described in ISO-6579-1:2017.

Sample Weight Required: 25 g, 100 g, 125 g, 250 g, and 375 g, swab

Method Reference: Bio-Rad iQ-Check® *Salmonella* II AFNOR Certificate No. BRD 07/06 – 07/04. Validated against NF EN ISO 6579 (2002) and its amendment A1 (2007) per NF EN ISO 16140 (2003), AOAC-2017.06

Analytical Platform: Real-Time PCR

Special Information: Some matrices may not be suitable due to the presence of free *Salmonella* DNA (i.e. live *Salmonella* no longer present in the matrix or ingredient but free DNA from previously lysed cells remains).

Some matrices may interfere with the chemistry of the RTi-PCR and therefore might require a higher enrichment dilution to overcome assay inhibition. If PCR inhibition still occurs with a higher dilution, the LI-00.759 test will be reported as “Not Determinable” and a LI-00.742 test will be added and initiated.

Matrices that are inhibitory to the growth of *Salmonella* when enriched at 1:10 are also subject to higher dilutions. Not applicable to dark tea powder, unless a sample preparation assessment has been completed.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Salmonella Final		Per g, mL, or swab	Detected / Not Detected	