

## METHOD SUMMARY – QWI-FM0003E

|                        |  |                    |                                |
|------------------------|--|--------------------|--------------------------------|
| <b>Method Title</b>    | <b>DETECTION OF SALMONELLA SPP – PRESENCE / ABSENCE – ELISA METHOD</b> |                    |                                |
| <b>Document number</b> | <b>QWI-FM0003E</b>   | <b>Date Issued</b> | 10 <sup>th</sup> November 2017 |

|                            |  |  |  |
|----------------------------|--|--|--|
| Method External References | SOLUS Salmonella ELISA Method  |  |  |
|                            | Protocol validated by AFNOR SOL-37/01-06/13  |  |  |
|                            | AS 5013 -10, 2009  |  |  |
| Matrix                     | As listed on NATA Scope.   |  |  |
| ALS Department             | <input type="checkbox"/> Pharmaceutical Chemistry<br><input type="checkbox"/> Water Microbiology <input checked="" type="checkbox"/> Food Microbiology<br><input type="checkbox"/> Pharmaceutical Microbiology <input type="checkbox"/> Food Chemistry   |  |  |
| Accreditation Status       | <input checked="" type="checkbox"/> NATA <input type="checkbox"/> NON-NATA <input type="checkbox"/> N/A  |  |  |
| Analysis technique         | <input type="checkbox"/> HPLC <input type="checkbox"/> GC <input type="checkbox"/> Wet Chemistry<br><input type="checkbox"/> Physical <input type="checkbox"/> Gravimetric <input type="checkbox"/> Qualitative<br><input type="checkbox"/> Pour Plate <input type="checkbox"/> Spread Plate <input type="checkbox"/> MPN<br><input type="checkbox"/> Filtration <input type="checkbox"/> Petrifilm <input type="checkbox"/> EHS<br><input checked="" type="checkbox"/> ELISA <input type="checkbox"/> VIDAS UP <input type="checkbox"/> VIDAS <input type="checkbox"/> TEMPO  |  |  |
| Method Principle           | <p>A test sample (minimum of 25 g of food or environmental units e.g. swab) is placed into a pre-enrichment non selective medium and incubated at 37 °C. The pre-enrichment is transferred to a selective enrichment broth followed by an enhancement step prior to running the ELISA Assay. The presence of <i>Salmonella</i> species is confirmed by subculture onto two selective agars, biochemical profiling using a commercial identification kit and group antigen reactions or using MALDI-TOF Biotyper.</p> <p>SOLUS is an enzyme immunoassay for use on the automated DS2 system for the detection of <i>Salmonella</i> antigens using the Enzyme Linked Immuno-Sorbent Assay.</p> |  |  |
| Reporting Unit             | Detected/Not Detected per weight of sample or swab tested (gram, mL or swab)   |  |  |
| LOR/LOQ                    | Presence or Absence  |  |  |

|  |      |                 |        |
|--|------|-----------------|--------|
| Minimum amount of sample required for analysis | 25 g | Turnaround time | 2 days |
|--|------|-----------------|--------|

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|-----------------------|--------------------------|--------------|--------------------------------|
| <b>Author:</b>        | Document Controller      | <b>Date:</b> | 10 <sup>th</sup> November 2017 |
| <b>Authorised By:</b> | National Quality Manager | <b>Date:</b> | 10 <sup>th</sup> November 2017 |