



# Check & Trace Salmonella 2.0

Save valuable lab time with our **molecular *Salmonella* serotyping workflow** using real-time PCR multiplexing technology.

**Get results in under two hours.**



## Rapid & actionable

Confirm *Salmonella* presence and identify the top 106 serotypes of concern in under 2 hours.

Typing is essential to eliminate *Salmonella* from the production chain.

Multiplex real-time PCR-based technology detects 27 target genes in parallel.



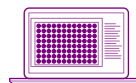
## Efficient & easy-to-use workflow

Easy sample preparation process.

Plug-and-play assay with ready-to-use reagents saving precious lab time.

Use standard laboratory equipment and a Bio-Rad real-time PCR cycler to run the test.

Access and manage data anytime, anywhere with our cloud-enabled services.



## Objective results

Proprietary software interprets results and provides a simple readout of the *Salmonella* serotype, based on a unique profile of genetic markers.

**MICROVAL®**  | **nēn**

Check & Trace Salmonella 2.0 has obtained the Microval certificate for confirmation and typing of *Salmonella*. Laboratories now have an officially certified alternative for the ISO-6579 workflows for confirmation and typing.



# How it works

| 1. Sample preparation                                                                                                                                                                | 2. Amplification                                                                                        | 3. Result interpretation                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Take sample from pure culture (XLD or NA medium plate) using the colony sampler</li> <li>Add sample buffer and heat to extract DNA</li> </ul> | <ul style="list-style-type: none"> <li>Mix DNA sample with Master Mix (reaction mix)</li> <li>Aliquot reaction mix into prefilled strips</li> <li>Run real-time PCR (90 mins)</li> </ul> | <ul style="list-style-type: none"> <li>Upload cycler results to the Check &amp; Trace analysis software to receive results in minutes</li> </ul> |

## Salmonella serotypes identified

All listed serotypes below are MicroVal approved.  
\* Pending AOAC certification; all other listed serotypes are AOAC approved.

|                  |                                         |                       |               |              |                    |                                          |
|------------------|-----------------------------------------|-----------------------|---------------|--------------|--------------------|------------------------------------------|
| Abaetetuba       | Bracknell*                              | enterica 47:z4,z23:-* | Indiana*      | Llandoff*    | Orion              | Tennessee                                |
| Aberdeen*        | Braenderup                              | Enteritidis           | Infantis      | London       | Ouakam             | Thompson                                 |
| Abortusovis*     | Brandenburg                             | Fresno*               | Isangi*       | Manhattan*   | Panama             | Typhimurium                              |
| Adelaide*        | Bredeney                                | Gaminara*             | Javiana       | Mbandaka     | Paratyphi B (Java) | Typhimurium mono-phasic (1,4,[5],12:i:-) |
| Agama*           | Cerro                                   | Gallinarum Gallinarum | Jerusalem*    | Meleagridis* | Poona              | Uganda                                   |
| Agona            | Chailey*                                | Gallinarum Pullorum   | Johannesburg* | Minnesota    | Putten*            | Urbana*                                  |
| Alachua          | Chester*                                | Give                  | Kapemba*      | Molade       | Reading            | Virchow                                  |
| Albany           | Choleraesuis                            | Gloucester*           | Kedougou*     | Montevideo   | Rissen             | Weltevreden*                             |
| Altona*          | Corvallis                               | Goldcoast             | Kentucky      | Muenchen     | Saintpaul          | Worthington                              |
| Amsterdam*       | Cubana                                  | Hadar                 | Kiambu*       | Muenster     | Sandiego           | Yoruba                                   |
| Anatum           | Derby                                   | Haifa*                | Kingston*     | Newport      | Schwarzengrund     |                                          |
| Banana*          | Dublin                                  | Hartford*             | Kottbus*      | Nottingham*  | Senftenberg        |                                          |
| Bareilly*        | Eastbourne*                             | Havana                | Lexington*    | Offa*        | Soerenga*          |                                          |
| Berta*           | Emek*                                   | Heidelberg            | Litchfield*   | Ohio         | Stanley            |                                          |
| Blockley*        | enterica 4,[5],12:d:-                   | Hvittingfoss*         | Liverpool*    | Oranienburg  | S. bongori (V)*    |                                          |
| Bovismorbificans | enterica 4,12:i:-*<br>(Not Typhimurium) | Idikan                | Livingstone   | Ordenez*     | Taksony*           |                                          |

## One powerful technology. Two platform options.



### Check & Trace Salmonella 2.0 (Cat. no. 18-2020)

- For Bio-Rad® CFX96™ / CFX Opus 96 PCR cyclers
- MicroVal certified
- AOAC PTM<sup>SM</sup> certified method (No. 072301)
- Validated ISO 6579 alternative



### Check & Trace Salmonella 2.0 QS5 (Cat. no. 18-2050)

- Platform-specific configuration for QuantStudio™ 5
- Same workflow and analysis software
- Includes chimney caps for 0.2 mL block format
- Not AOAC performance tested or MicroVal certified

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