

Rapid molecular *Salmonella* serotyping



Your reliable tool in *Salmonella* reduction

Results within one day

Simple workflow

Confirm all *Salmonella*[#] and identify over 300 serotypes

Serotyping is crucial in tracing and eliminating *Salmonella*

Different sources of *Salmonella* contamination are often associated with distinct *Salmonella* serotypes. Therefore it is essential in any effective *Salmonella* reduction program to obtain knowledge about the serotype involved. Furthermore, *Salmonella* serotyping is an integral part of *Salmonella* surveillance studies and outbreak investigations.

Animal protein producers

Detect and destroy the source of the *Salmonella* contamination as soon as possible

Food Companies

Monitoring ingredients and products to ensure the highest quality

Microbiological Laboratories

Quick and reliable serotyping results

	Sample preparation	Identification & Amplification		Detection	Results
Total time per step*	30 min	5.5 h		1.5 h	5 min
Hands-on time per step*	15 min	2 x 15 min	15 min	3 x 15 min	5 min
	Pre-PCR			Post-PCR	
Equipment required	<ul style="list-style-type: none"> • Heating Block • Vortex Mixer 	<ul style="list-style-type: none"> • Thermocycler • Mini-centrifuge • Flow cabinet 	<ul style="list-style-type: none"> • Thermocycler 	<ul style="list-style-type: none"> • Thermomixer with active cooling • Vortex Mixer • Mini-centrifuge 	<ul style="list-style-type: none"> • Check-Points Tube Reader with software • Computer with USB drive (and internet connection) • Barcode Reader (optional)

*Subject to variation depending on the number of samples analyzed. Approximate time for 12 samples. Please contact info@checkandtrace.com for more information

#The test is developed to detect *Salmonella enterica enterica* subspecies.

Advantages of Check and Trace Salmonella

Serology (KW)

- Results in up to 5+ days
- Subjective results
- Expertise required (difficult to learn)
- Different tests for different serovars
- Variable quality between providers and batches
- Dependent on phenotypical expression of antigens

Check & Trace Salmonella

- Results in 1 day
- Objective software results
- Easy to learn in 1 day
- One test for all serotypes
- 1 provider of the test
- Based on DNA markers, provides higher sensitivity/specificity

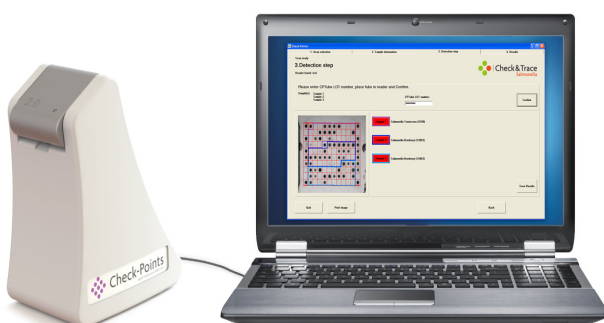
The innovative Check & Trace Salmonella method can detect and confirm *Salmonella* and discriminate over 300 serotypes. The serotype identification relies on molecular markers targeting different regions of the *Salmonella* genome.

The presence or absence of these genetic markers creates a unique profile which is automatically interpreted by the proprietary CTS software and assigned to a serotype.

Because of these genetic markers even strains with incomplete antigenic formulation can be assigned to a serotype, giving a fast, highly distinctive and accurate result.

“CTS was able to assign a serovar to 71.7% of isolates which were inconclusive by conventional methods. CTS provides an easy transition and demonstrates ease-of-use and reduces the turn-around-time of a reported result significantly compared to classical serotyping”

Ferrato et al., Journal of Microbiological Methods
135, (2017) 14–19



AOAC-RI and OIE certified serotypes

■ AOAC-RI & OIE certified

■ AOAC-RI certified



Validated and certified by the OIE as fit for the purposes defined in the user manual provided with this kit. Registration number: 20110106

■ 1,4,[5],12:i-	■ Chandans	■ Havana	■ Mbandaka	■ Rubislaw
■ 4,[5],12:d-	■ Chester	■ Heidelberg	■ Meleagridis	■ Ruiru
■ Abaetetuba	■ Choleraesuis	■ Hvittingfoss	■ Miami	■ Saintpaul
■ Aberdeen	■ Coeln	■ Ibadan	■ Michigan	■ Sandiego
■ Abony	■ Colindale	■ Idikan	■ Mikawasima	■ Schwarzengrund
■ Adelaide	■ Corvallis	■ Indiana	■ Minnesota	■ Senftenberg
■ Agama	■ Cotham	■ Infantis	■ Monschau	■ Soerenga
■ Agona	■ Cubana	■ Isangi	■ Montevideo	■ Stanley
■ Alachua	■ Derby	■ Jangwani	■ Muenchen	■ Stourbridge
■ Albany	■ Dublin	■ Kapemba	■ Muenster or Reading	■ Taksony
■ Altona	■ Duisburg	■ Kedougou	■ Nagoya	■ Telekebir
■ Amsterdam	■ Durban	■ Kedougou	■ Napoli	■ Tennessee
■ Anatum	■ Eastbourne	■ Kentucky	■ Newport	■ Thompson
■ Augustenborg	■ Eboko	■ Kiambu	■ Ohio	■ Typhi
■ Banana	■ Emek	■ Kirkee	■ Oranienburg	■ Typhimurium
■ Bareilly	■ Enteritidis	■ Kisarawe	■ Orion	■ Uganda
■ Bergen	■ Fresno	■ Kottbus	■ Oslo	■ Urbana
■ Berta	■ Gaminara	■ Lagos	■ Ouakam	■ Veneziana
■ Blockley	■ Gallinarum Gallinarum	■ Lexington	■ Panama	■ Virchow
■ Bongori	■ Gallinarum Pullorum	■ Lille	■ Paratyphi A	■ Wandsworth
■ Bovismorbificans	■ Give	■ Litchfield	■ Paratyphi B	■ Weltevreden
■ Braenderup	■ Glostrup	■ Liverpool	■ Paratyphi B v Java	■ Worthington
■ Brandenburg	■ Gloucester	■ Livingstone	■ Paratyphi C	■ Yoruba
■ Bredeney	■ Goldcoast	■ Llandoff	■ Pomona	
■ Brunei	■ Grumpensis	■ London	■ Poona	
■ Carno	■ Hadar	■ Manchester	■ Reading	
■ Carrau	■ Haifa	■ Manhattan	■ Regent	
■ Cerro	■ Hartford	■ Matadi	■ Rissen	

For questions about the serotypes detected by Check&Trace Salmonella please contact info@checkandtrace.com

Ordering information

Check&Trace Salmonella

Kit for 72 samples

Check-Points tube reader

For suitable equipment please contact info@checkandtrace.com

Catalog number

10-0010

16-0001



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